



Appendix B

**ATCAT Meeting Minutes and Conference Call
Summaries**

Avila Tank Farm Collaborative Assessment Team ATCAT

Meeting Summary

Date: March 26, 2007

Time: 9:30 AM – 3:45 PM

Location: Chevron Offices, San Luis Obispo

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|------------------|-----------------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Steve McMasters | SLO County Planning & Bldg. |
| Melissa Boggs-Blalack | CDFG | Andrew Mutziger | APCD |
| Teri Copeland | SLO County Health Dept. | Jeff Oliveria | SLO County Planning & Bldg. |
| Josh Fridell | Chevron | Mike Rendina | Avocet Environmental |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Jennifer Holder | ARCADIS BBL | Robert Van Hying | Avocet Environmental |
| Aaron LaBarre | SLO County Health Dept. | David Wolff | David Wolff Environmental |

Welcome and Introductions

Chuck Anders welcomed the ATCAT participants. Each participant introduced themselves briefly and discussed their role.

Safety Moment

Bill Almas reviewed the safety precautions regarding the conference room and facilities. He also presented information regarding the hazards of using cellular telephones and other distractions while driving.

Overview of Collaborative Process

Bill Almas indicated that Chevron has entered into a business relationship with a Rob Rossi to explore development of the site. Supervisor Jerry Lenthall is sponsoring a series of four meetings with selected community representatives to discuss possible uses for the site. The second meeting of this group will be held on April 5, 2007.

Chevron currently has no specific project in mind; therefore, the ATCAT will have to make some broad assumptions in order to move forward with the Plan for Managing Risk (PMR). He expects that Chevron will have a better idea for possible site uses in July. Chevron would like to file the development plan and EIR at the same time. Bill anticipates that the development of a PMR will take around six months and resolve 80% of the issues. He emphasized that Chevron will retain liability and be responsible for remediation at the site.

Site History and Environmental Data

Mike Rendina reviewed the site history and environmental data that has been collected from the site. Unocal acquired the site in 1906. They subsequently constructed a pump station, small refinery, storage tanks and associated piping. All improvements were either removed or decommissioned by the late 1990s. Extensive environmental sampling has and continues to be conducted at the site. Sampling includes groundwater, surface water, cliff seeps, soil sampling and soil gas.

Overview of Human Health Risk Assessment

Chuck Lambert reviewed that Human Health Risk Assessment (HHRA) that was conducted in 2004/2005. He discussed the following elements:

- HHRA Objectives
- COPC selection process
- Potential future site users
- Potential exposure pathways that were evaluated
- Exposure scenarios evaluated
- Exposure point concentrations
- Cancer risks and drivers
- Risk conclusions
- Uncertainty issues
- Conclusions

Chuck observed that additional soil gas sampling would be necessary to resolve the uncertainties. Andy Mutziger expressed APCD's concern that there is another risk group to consider: Previous residents of community of Avila who move to a future development site at the Avila Tank Farm. The human health risk for such an individual would need to include the Avila Tank Farm site risk and the cumulative risk of the prior exposure of community residents to diesel particulates during remediation of the town site.

Overview of Preliminary Ecological Risk Assessment

Jennifer Holder discussed the predictive Ecological Risk Assessment (pERA) that was conducted in 2004. She discussed the following pERA elements:

- COPEC selection
- Conceptual site model
- Exposure assessment
- Effects assessment
- Tier 1 and tier 2 risk characterization
- Uncertainties
- Conclusions

David Wolff reviewed the baseline biological surveys that were conducted on site, including the fairy shrimp, aquatic vertebrate, and jurisdictional wetland survey completed and included in the December 2005 Ecological Evaluation Supplement II (EE II). The EE II was not circulated to the ATCAT. The wetlands determination has not been submitted to the U.S. Army Corps for verification of jurisdiction. He indicated that the U. S. Army Corps of Engineers will issue additional guidance based on the 2006 Supreme Court Rapanos decision for determination of isolated wetlands, which could effect the designation at the site. A draft Wetland Addendum to the pERA has been prepared and will be submitted to the ATCAT for review.

Regina Donohoe asked if there was any additional information regarding the source of mercury at the site. Mike Rendina indicated that no specific sources have been identified.

Risk Management Plan Process

Jennifer Holder discussed the process to develop a PMR for the site. She reviewed the risk management plan for the San Luis Obispo Tank Farm and suggested that it would be a good model to follow. She said that breaking up the site into geographic areas would make the evaluation process easier.

Bill Almas indicated that the PMR would provide necessary information for the preparation of the site Feasibility Study (FS). Jeff Oliveira agreed that a PMR would be very useful. Regina Donohoe emphasized the importance of identifying the geographic areas before doing any further assessment. The ATCAT participants agreed that breaking the site into "Initial Evaluation Areas" (IEA) would be a good approach to the PMR process and identified the following factors to consider when defining the IEAs:

- Land use
- Contamination types
- Remediation necessity
- Type of habitat
- Engineering considerations
- Health/ecological risk
- Variance of data

Mike Rendina and Robert Van Hying presented the attached map that identified eight areas based on the following factors:

- Steep slopes (>30%)
- Large trees
- Wetlands
- Archeological sites
- TPH in soils
- LNAPL

The participants discussed different strategies for identification of the IEAs and the necessity to wait for soil gas data prior to doing any risk analysis. The ATCAT agreed on ten IEAs based on the map presented by Mike and Robert. It was also agreed that it was not necessary to delay the evaluation process until soil gas data were collected. It was observed that LNAPL removal could also impact future soil gas levels.

The ATCAT agreed to organize the information in a matrix, which identifies potential risk for specific land uses within each of the IEAs as illustrated in the following example table:

| IEA | Land Use | | | | | | |
|-----|----------|---|---|---|---|---|---|
| | A | B | C | D | E | F | G |
| 1 | | | X | | | | |
| 2 | X | | | | | | |
| 3 | | | | X | X | | |
| 4 | | | | | | | |
| 5 | | | | | | X | |
| 6 | | | | | | | |
| 7 | | X | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | X |

Chuck Lambert questioned whether the collection of additional heavy metal samples should be delayed until the evaluation matrix was complete. It was agreed that it was not necessary to complete the matrix prior to sampling for heavy metals

The ATCAT agreed that it would be very useful for the California Coastal Commission staff to participate in the preparation of the PMR. Steve McMasters will contact the Coastal Commission staff to discuss their participation. He suggested a site tour be arranged when they meet in San Luis Obispo.

Action Items and Schedule

The ATCAT participants agreed on the following action items and schedule:

| Number | Activity | Responsibility | Date Due |
|---------------|---|---------------------------------|-----------------|
| 1 | Prepare/distribute GIS map layer displaying IEAs and environmental data for each IEA | Mike Rendina | 3/30/07 |
| 2 | Prepare risk characterizations for individual or combinations of IEAs | Chuck Lambert | 3/30/07 |
| 3 | Prepare draft human health risk evaluation matrix | | |
| 3a | Prepare/distribute draft human health risk evaluation matrix | Chuck Lambert | 5/4/07 |
| 3b | Review draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 3c | Conference call to discuss draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 4 | Prepare draft eco risk evaluation matrix | | |
| 4a | Prepare/distribute draft eco risk evaluation matrix | Jennifer Holder | 5/4/07 |
| 4b | Review draft eco risk evaluation matrix | Eco Risk Working Group | 5/10/07 |
| 4c | Conference call to discuss draft eco risk evaluation matrix | Eco Risk Working Group | 5/10/07 |
| 5 | Collect soil gas data | | |
| 5a | Prepare draft workplan for collection of soil gas data. | Mike Rendina | 4/16/07 |
| 5b | Review Draft soil gas workplan | ATCAT | 4/23/07 |
| 5c | Conference call to discuss/approve soil gas workplan | ATCAT | 4/23/07 |
| 5d | Conduct soil gas survey and prepare draft report | Mike Rendina | 6/25/07 |
| 6 | Complete Wetland Addendum to the pERA | | |
| 6a | Distribute CD with version 1 of Wetland Addendum, wetland survey, and supplemental surface water and sediment data. A copy of the EE II will be included on the CD. | Jennifer Holder | 4/16/07 |
| 6b | Review/Ratify Wetland Addendum at 5/10/07 conference call | ATCAT | 5/10/07 |
| 7 | Prepare/distribute draft of one-page public information document | | |
| 7a | Prepare draft of one-page public information document | Chuck Lambert | 3/30/07 |

| | | | |
|----|---|-----------------|---------|
| 7b | Review/comment on draft public information document (include Supervisor Lenthall) | ATCAT | 4/3/07 |
| 7c | Revise and distribute final public information document for use at 4/5/07 public meeting | Chuck Lambert | 4/5/07 |
| 8 | Initiate dialogue with Coastal Commission regarding risk management process and determination if on-site wetland habitats meet the Coastal Act wetlands definition for consideration in the site planning process. Set up site visit when Coastal Commission holds meeting in SLO | Steve McMasters | 3/30/07 |

Upcoming Meeting Dates and Agenda Items

ATCAT Conference call to review draft soil gas workplan – April 23rd (2:00 - 4:00 PM)

1. Review / approve soil gas workplan

ERWG Conference call – May 10th (2:00 - 4:00 PM)

1. Review draft ecological risk evaluation matrix.
2. Review comments to the Draft Wetland Addendum

HHRWG Conference call to discuss draft evaluation matrix – May 14th (2:00 - 4:00 PM)

1. Review draft human health risk evaluation matrix.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
3. Next Steps

Avila Tank Farm Collaborative Assessment Team ATCAT

Draft Conference Call Summary

Date: April 23, 2007

Time: 2:20 PM – 3:15 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|------------------|-----------------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Andrew Mutziger | APCD |
| Melissa Boggs-Blalack | CDFG | Dan Niles | RWQCB |
| Teri Copeland | SLO County Health Dept. | Jeff Oliveria | SLO County Planning & Bldg. |
| Regina Donohoe | CDFG | Mike Rendina | Avocet Environmental |
| Josh Fridell | Chevron | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ARCADIS BBL | Satya Varadhi | Parsons |

Welcome and Introductions

Chuck Anders welcomed the ATCAT participants and identified who was participating in the conference call. Chuck explained that the participants who logged onto the conference web site could view the presentations and documents that were being discussed.

Review/Ratify Previous Meeting Summary

The conference call participants reviewed version 3 of the meeting summary from the March 26, 2007 ATCAT meeting. Chuck Anders reviewed revised language from Andrew Mutziger, which was not included in version 3 of the draft of the meeting summary. The participants unanimously approved the draft meeting summary with the inclusion of the revised language from Andrew.

Soil Gas Sampling Plan

Mike Rendina provided an overview of the Soil Gas Sampling Plan distributed on April 20, 2007. He explained that the purpose for collecting and analyzing additional soil gas samples was to collect data regarding the nature and extent of VOCs in soil gas and the vapor transport properties of the soil/bedrock to aid in evaluating the human health risk due to vapor intrusion. The participants discussed the proposed sampling plan and the following specific topics:

- Jeff Oliveria asked how the sampling locations were determined. Mike Rendina indicated that the sampling grid was designed to achieve spatial distribution and sampling of known areas of contamination.
- Bill Almas questioned how the number of samples was determined. Mike Rendina indicated that the number of samples to be collected was based on professional judgment, site knowledge and experience at similar sites. The goal was to collect an adequate number of samples to identify areas where further investigation may be necessary. The topographic relief on the site complicates the sampling design. Terri

Upcoming Meeting Dates and Agenda Items

ERWG “Tentative” Conference call – May 10th (2:00 - 4:00 PM)

1. Review draft ecological risk evaluation matrix.
2. Review comments to the Draft Wetland Addendum

HHRWG Conference call to discuss draft evaluation matrix – May 14th (2:00 - 4:00 PM)

1. Review draft human health risk evaluation matrix.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
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Copeland observed that the grid covers the ½ acre default area for worker exposure assessments.

- Jennifer Holder asked if previous soil gas data collected at the site would be used in the risk analysis. Mike Rendina indicated that six locations were previously sampled for soil gas at the site. Chuck Lambert indicated that he would have to talk with the County about using the previous data in the human health risk assessment. He would prefer to use all new data. Mike Rendina indicated that he had attempted to duplicate the locations where higher levels of VOCs were previously observed.
- Regina Donohoe questioned whether the soil gas sampling plan should focus on the area where chloroform was previously observed. Mike indicated that he believes that it is premature to focus on chloroform until it is determined if there are other areas where chloroform is observed.
- Chuck Lambert and Teri Copeland suggested that the sampling intervals to determine the physical characteristics of the soil be changed from 5 and 10 feet to 5 and 15 feet to be consistent with human health risk assessment modeling protocols. The participants agreed to use 5 and 15 feet.
- Andrew Mutziger asked whether moisture content would be determined in the soil samples. Mike Rendina indicated that moisture content would be one of the sampling parameters.
- Satya Varadhi observed that the analytical testing protocols looked fine. He indicated that it would be useful to know the specific land uses prior to preparing a soil gas sampling plan. Chuck Lambert explained that the soil gas sampling is being done to assist in determining the appropriate land uses and that additional sampling might be necessary once a more detailed land use plan is completed. Josh Fridell suggested that this be discussed in more detail in the Background and Purpose section of the sampling plan. Mike Rendina will talk further with Satya after the conference call to discuss the sampling strategy.
- Regina Donohoe suggested adding the proposed sampling locations to Figure 2 in order to better observe how the soil gas sampling locations relate to the other sampling locations.
- Teri Copeland requested that all reporting units be consistent.

After the discussion, the conference call participants approved the draft soil gas sampling plan with the following revisions provided there are no significant changes resulting from the discussions between Mike Rendina and Satya Varadhi:

- Physical characteristics of the soil will be collected at 5 ft. and 15 ft. intervals.
- Soil gas sampling locations will be added to Figure 2.
- A more detailed discussion of the use of the sampling results to determine potential land uses and the potential for additional soil gas sampling will be included in the Background and Purpose sections of the sampling plan.
- All reporting units will be made consistent with the laboratory reporting units.

Mike Rendina indicated that the soil gas sampling report would be available within 8-9 weeks of authorization to proceed. He will distribute the final sampling plan by the end of the week (April 27, 2007).

Status of ATCAT Action Items

Chuck Anders reviewed the status of the following actions items with the ATCAT participants. All actions items are currently on schedule.

| Number | Activity | Responsibility | Date Due |
|---------------|---|---------------------------------|--------------------|
| 1 | Prepare/distribute GIS map layer displaying IEAs and environmental data for each IEA | Mike Rendina | 3/30/07 |
| 2 | Prepare risk characterizations for individual or combinations of IEAs | Chuck Lambert | 3/30/07 |
| 3 | Prepare draft human health risk evaluation matrix | | |
| 3a | Prepare/distribute draft human health risk evaluation matrix | Chuck Lambert | 5/4/07 |
| 3b | Review draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 3c | Conference call to discuss draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 4 | Prepare draft eco risk evaluation matrix | | |
| 4a | Prepare/distribute draft eco risk evaluation matrix | Jennifer Holder | 5/4/07 |
| 4b | Review draft eco risk evaluation matrix | Eco Risk Working Group | 5/10/07 |
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| 5d | Conduct soil gas survey and prepare draft report | Mike Rendina | 6/25/07 |
| 6 | Complete Wetland Addendum to the pERA | | |
| 6a | Distribute CD with version 1 of Wetland Addendum, wetland survey, and supplemental surface water and sediment data. A copy of the EE II will be included on the CD. | Jennifer Holder | 4/16/07 |
| 6b | Review/Ratify Wetland Addendum at 5/10/07 conference call | ATCAT | 5/10/07 |
| 7 | Prepare/distribute draft of one-page public information document | | |
| 7a | Prepare draft of one-page public information document | Chuck Lambert | 3/30/07 |
| 7b | Review/comment on draft public information document (include Supervisor Lenthall) | ATCAT | 4/3/07 |
| 7c | Revise and distribute final public information document for use at 4/5/07 public meeting | Chuck Lambert | 4/5/07 |
| 8 | Initiate dialogue with Coastal Commission regarding risk management process and determination if on-site wetland habitats meet the Coastal Act wetlands definition for consideration in the site planning process. Set up site visit when Coastal Commission holds meeting in SLO | Steve McMasters | 3/30/07 |

Avila Tank Farm Collaborative Assessment Team Eco Risk Working Group (ERWG)

Conference Call Summary

Date: May 10, 2007
Time: 2:00 PM – 3:35 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-----------------------|--------------|----------------------|
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Melissa Boggs-Blalack | CDFG | Mike Rendina | Avocet Environmental |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Jennifer Holder | ARCADIS BBL | George Weber | ARCADIS BBL |

Welcome and Introductions

Chuck Anders welcomed the ATCAT participants and identified who was participating in the conference call. Participants who logged onto the conference web site could view the presentations and documents that were being discussed.

Draft Wetlands pERA Addendum

Jennifer Holder indicated that she had received written comments from Regina Donohoe. Regina's comments were not distributed to the full ERWG. Chuck Anders will forward Regina's comments to the full ERWG for their information. Melissa Boggs-Blalack indicated that she concurred with Regina's comments and had no additional comments. Jennifer reviewed Regina's comments and indicated that she would revise the draft Wetland pERA Addendum to address Regina's comments. The following points were discussed:

- It was agreed to make the discussion of surface water more transparent to clarify that surface water data was screened against water quality criteria and there were no significant concerns.
- Dan Niles express concern that the presence of TPH in the cliff seeps was not addressed. Jennifer explained that the wetland addendum focused on the tank bottoms where populations of species might be established. Dan questioned if birds might drink from the cliff seeps where concentrations of TPH up to 1,400 ppb have been observed.

Jennifer indicated that the wetlands were included in the original draft of the pERA until we realized that we could not draw conclusions on wetland areas without additional data. She will review earlier drafts to see if the seeps were discussed. Dan indicated that he had looked at other constituents and that TPH was the only concern at this time. Regina indicated that it was difficult to evaluate ecological risks for TPH and suggested a qualitative discussion of the cliff seeps in the addendum. The ERWG agreed that the seeps should be discussed in the wetland addendum.

- Jennifer Holder will prepare a revised red-lined draft wetland addendum incorporating Regina's comments and a qualitative discussion of the cliff seeps by June 15, 2007. The revised draft will be ratified by email or conference call depending on the extent of comments on the revised draft. A tentative conference call was scheduled for 9:30 AM – 10:30 AM on June 25, 2007.

Draft Eco Risk Evaluation Matrix

Jennifer Holder reviewed the draft Eco Risk Evaluation Matrix which had been previously distributed to the ERWG. She explained that they examined each of the individual evaluation areas (IEAs) and estimated the coverage of the subsurface plume and the sprayed asphalt. They also estimated the coverage of various habitat types. They then evaluated the number of samples in each area and determined the compounds that posed a potential risk to invertebrates, birds and mammals. They also identified the potential risk drivers for potential wetlands habitat. After Jennifer's overview, the ERWG discussed the following points:

- Regina Donohoe observed that lead, mercury and TPH were consistently observed. She feels that there are adequate data to draw conclusions with regard to lead. She questioned whether additional samples should be collected to better understand the presence of mercury.

Mike Rendina indicated that there is relatively good coverage for mercury and that it might be useful to correlate the occurrences of mercury with a visual inspection of the site.

Regina suggested that additional sampling might be useful in the areas where there is only one elevated sample (S-1, S-38 & S-40) to assess whether the sample is anomalous or if the sample is characteristic of the area. She also observed it may not be a high priority to address data gaps in areas where the probability of development is high.

The participants questioned whether the Human Health Risk Working Group (HHRWG) had the same concerns. It was agreed to check with the HHRWG regarding these issues.

- Regina Donohoe indicated that she would like to have a better delineation of the refinery glass. She also believes that better depth profiles of the TPH in soils are necessary to determine acceptability for open space. She indicated that if contamination was observed at depths of 2 ft. – 3 ft., she would have concerns about using areas as open space without remediation.

Mike Rendina indicated that, except for the pump house area, there was not much TPH in soils above 5 feet since most leaks were from pipelines. He can prepare some vertical profiles based on existing sampling data. He will prepare a letter discussing the preparation of vertical TPH profiles based on the aggregation of existing TPH data by May 24, 2007. This concept will be reviewed with the HHRWG to determine if they have similar needs.

- Jennifer Holder asked if the matrix was a useful tool to identify additional data needs and prepare a risk management plan. Regina Donohoe believes that it is useful. Melissa Boggs-Blalack indicated that she needs more time to review the matrix. She questioned whether the cliff seeps should be a separate evaluation area. Mike Rendina believes that the cliff seeps should not be a separate risk evaluation area; however, it could be a separate operable unit for remediation purposes. It was agreed to separate Area 10 into two sub-areas (Area 10 North and Area 10 South) and include the seeps in Area 10 South.
- Written comments on the Draft Eco Risk Evaluation Matrix are due by May 24, 2007. Jennifer Holder and Chuck Anders will determine if additional discussion is necessary before preparing a revised draft.

ERWG Action Items

Following are the current ERWG action items. The action items resulting from the ERWG conference call are shown in blue.

| Number | Activity | Responsibility | Date Due |
|---------------|---|---|-----------------|
| 4 | Prepare draft eco risk evaluation matrix | | |
| 4a | Prepare/distribute draft eco risk evaluation matrix | Jennifer Holder | 5/4/07 |
| 4b | Review draft eco risk evaluation matrix | Eco Risk Working Group | 5/10/07 |
| 4c | Conference call to discuss draft eco risk evaluation matrix | Eco Risk Working Group | 5/10/07 |
| 4d | Discuss the need to collect additional samples for mercury and the need for vertical TPH profiles with the HHRWG | Chuck Anders, Regina Donohoe, Melissa Boggs-Blalack | 5/14/07 |
| 4e | Prepare letter discussing the preparation of vertical TPH profiles based on the aggregation of existing TPH data | Mike Rendina | 5/24/07 |
| 4f | Submit written comments on the draft eco risk evaluation matrix | ERWG | 5/25/07 |
| | | | |
| 6 | Complete Wetland Addendum to the pERA | | |
| 6a | Distribute CD with version 1 of Wetland Addendum, wetland survey, and supplemental surface water and sediment data. A copy of the EE II will be included on the CD. | Jennifer Holder | 4/16/07 |
| 6b | Review/Ratify Wetland Addendum at 5/10/07 conference call | ATCAT | 5/10/07 |
| 6c | Distribute Regina Donohoe's written comments to the full ERWG | Chuck Anders | 5/11/07 |
| 6d | Distribute the revised wetland addendum for review | Jennifer Holder | 6/15/07 |
| 6e | Tentative conference call to review/ratify the revised wetland addendum | ERWG | 6/25/07 |
| 6f | Ratify the revised wetland addendum | ERWG | 6/30/07 |

Upcoming Meeting Dates and Agenda Items

ERWG "Tentative" Conference Call – June 25th (9:30 - 10:30 AM)

1. Review comments to the Draft Wetland Addendum
2. Ratify Wetland Addendum, if possible

HHRWG Conference Call to discuss draft evaluation matrix – May 14th (2:00 - 4:00 PM)

1. Review draft human health risk evaluation matrix.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
3. Next Steps

Avila Tank Farm Collaborative Assessment Team Human Health Risk Working Group (HHRWG)

Conference Call Summary

Date: May 14, 2007

Time: 2:00 PM – 3:25 PM

Participants:

| Name | Organization | Name | Organization |
|----------------|-------------------------|------------------|----------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Andrew Mutziger | APCD |
| Teri Copeland | SLO County Health Dept. | Mike Rendina | Avocet Environmental |
| Becky Countway | McDaniel Lambert | Rick Stout | URS |
| Regina Donohoe | CDFG | Robert Van Hying | Avocet Environmental |
| Josh Fridell | Chevron | George Weber | ARCADIS BBL |

Welcome and Introductions

Chuck Anders welcomed the Human Health Risk Working Group (HHRWG) participants and identified who was participating in the conference call. Participants who logged onto the conference web site could view the presentations and documents that were being discussed.

Draft Human Health Area Screening Evaluation

Chuck Lambert reviewed the Draft Human Health Area Screening Evaluation that was distributed via email on May 6, 2007. He reminded the participants that the overall purpose of the evaluation was to break out risk by individual evaluation area (IEA). Chuck reviewed Table 15, which presents the summary of results and potential data gaps. The following topic areas were discussed:

- Teri Copeland expressed concern about having adequate data in IEAs where a potential land use is possible. She suggested showing the sampling locations on a site map to identify the spatial distribution of sample locations in each IEA. She observed that a more rigorous statistical evaluation might be necessary to determine the number of samples that are necessary in each area. She also noted that it might be useful to revise the area boundary of the IEAs based on data distribution patterns.
- Regina Donohoe reviewed the following Eco Risk Working Group's (ERWG) concerns and conclusions from their 5/10/07 conference call.
 - The cliff seeps will be added to the pERA evaluation. Chuck Anders noted that Dan Niles had a mandatory training conflict and could not participate in the conference call. He explained Dan's concern that the cliff seeps be addressed in both the pERA and HHRA.
 - Elevated levels of mercury were observed in three locations where there were no additional samples nearby. The ERWG would like to collect additional samples to determine whether these samples were representative of the area or anomalous.
 - The ERWG would like to have depth profiles between 0 and 5 ft. where elevated levels of TPH are observed. Mike Rendina will prepare a concept memo on the

preparation of vertical TPH profiles based on the aggregation of existing TPH data.

- It would be useful to identify which elevated surface samples are associated with sprayed asphalt.
- Bill Almas observed that additional sampling may be appropriate for areas that are not likely to be remediated and used for open space; however, he questioned the need for additional sampling at this time for those areas that are likely to be developed. Regina agreed that it would be helpful to narrow down the land use to refine the sampling needs. Mike Rendina noted that the levels of concern for eco are much lower than human health. Teri Copeland concurred that it would be a more efficient approach to sample after the areas have been remediated.

Chuck Lambert noted that IEAs 2, 3, 5 and 9 have quite a lot of data associated with them. Becky Countway explained that the HHRA evaluated depth profiles for TPH and that this information may be useful in the eco evaluation.

- The potential for collecting additional soil samples in conjunction with the upcoming soil gas investigation was discussed. Mike Rendina noted that soil samples could easily be collected since soil borings are necessary to conduct the soil gas survey. The major expense would be additional analytical costs. He anticipates that they could be in the field to collect soil gas samples within two weeks. Josh Fridell indicated that it would not be a big issue to adjust the soil gas workplan to collect additional soil samples.

Chuck Lambert observed that it would be possible to do some additional evaluation based on existing spatial and analytical sampling data; however, a more rigorous statistical analysis would take longer. The HHRWG agreed to conduct a visual assessment of existing sample locations by plotting existing sample locations on a site map to determine if additional sample locations are necessary. The assessment should include a table that identifies additional sample locations based on spatial vs. analytical requirements. Mike Rendina will distribute the document for review by May 29th. A conference call was scheduled for May 31st from 9:00 AM – 11:00 AM to discuss the assessment.

- The participants discussed the most effective method to address the cliff seeps. It was agreed that Chuck Lambert would prepare a technical memorandum by July 13th that would assess the human health risks associated with the cliff seeps. The technical memorandum will be discussed and potentially ratified at the July 23rd ATCAT meeting. Regina Donohoe noted that the ERWG chose to separate IEA 10 into two sub-areas (10 North and 10 South) and include the cliff seeps in 10 South.

Status of ATCAT Action Items

Following are the current HHRWG action items. The action items resulting from the HHRWG conference call are shown in blue.

| Number | Activity | Responsibility | Date Due |
|---------------|---|---------------------------------|-----------------|
| 3 | Prepare draft human health risk evaluation matrix | | |
| 3a | Prepare/distribute draft human health risk evaluation matrix | Chuck Lambert | 5/4/07 |
| 3b | Review draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 3c | Conference call to discuss draft human health risk evaluation matrix | Human Health Risk Working Group | 5/14/07 |
| 3d | Evaluate the adequacy of existing TPH soil sampling locations and identify additional locations that could be sampled during the upcoming soil gas survey | Mike Rendina | 5/29/07 |
| 3e | Conference call to discuss and ratify additional TPH sample locations, if any, to be collected during the soil gas survey. | HHRWG | 5/31/07 |
| 3f | Prepare Tech Memo addressing the human health risks associated with the cliff seeps | Chuck Lambert | 7/13/07 |
| 5 | Collect soil gas data | | |
| 5a | Prepare draft workplan for collection of soil gas data | Mike Rendina | 4/16/07 |
| 5b | Review Draft soil gas workplan | ATCAT | 4/23/07 |
| 5c | Conference call to discuss/approve soil gas workplan | ATCAT | 4/23/07 |
| 5d | Conduct soil gas survey and prepare draft report | Mike Rendina | 6/25/07 |
| 5e | Collect additional TPH soil samples, if appropriate | Mike Rendina | 6/25/07 |

Upcoming Meeting Dates and Agenda Items

HHRWG Conference Call – May 31st (9:00 - 11:00 AM)

1. Review draft human health risk evaluation matrix.

ERWG “Tentative” Conference Call – June 25th (9:30 - 10:30 AM)

1. Review comments to the Draft Wetlands Addendum
2. Ratify Wetland Addendum, if possible.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
3. Review Tech Memo addressing the human health risks of the cliff seeps
4. Next Steps

Avila Tank Farm Collaborative Assessment Team Combined Human Health Risk Working Group (HHRWG) and Eco Risk Working Group (ERWG)

Conference Call Summary

Date: May 31, 2007

Time: 9:00 AM – 10:20 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|------------------|----------------------|
| Bill Almas | Chevron | Jennifer Holder | ARCADIS BBL |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs-Blalack | CDFG | Andrew Mutziger | APCD |
| Teri Copeland | SLO County Health Dept. | Mike Rendina | Avocet Environmental |
| Becky Countway | McDaniel Lambert | Rick Stout | URS |
| Regina Donohoe | CDFG | Robert Van Hying | Avocet Environmental |

Welcome and Introductions

Chuck Anders welcomed the Human Health Risk Working Group (HHRWG) and Eco Risk Working Group participants and identified who was participating in the conference call. Participants who logged onto the conference web site could view the presentations and documents that were being discussed.

Ratify Previous Meeting Summaries

The ERWG participants ratified the Revised Draft May 10, 2007 ERWG Conference Call Summary – ver 2 as written, contingent on concurrence from Dan Niles. *(Chuck Anders subsequently spoke with Dan who approved the meeting summary.)*

The HHRWG participants plus Regina Donohoe ratified the Draft May 14, 2007 HHRWG Conference Call Summary – ver1 as written.

Additional Evaluation of TPH Profiles in Shallow Soils

Mike Rendina reviewed the draft technical memorandum that was distributed to the ERWG members on May 29th. The conference call participants discussed the following points:

- Regina Donohoe asked Mike if he was going to test or record the geophysical observations from borings during the upcoming soil gas survey. She explained that the current workplan calls for sampling at 1, 5 and 10 ft. intervals and that she would like to see samples collected at 1-5 or 6 ft. since this is a critical exposure depth for most burrowing animals and plants. Mike said that he could collect continuous core samples and do a visual and olfactory assessment for the presence of TPH. Regina added that it would be useful to present all the TPH information on one map. Chuck Lambert suggested using a PID in addition to physical observations.

- Bill Almas questioned where the 70% ratio of C₄-C₂₅:C₂₅-C₄₀ to categorize asphalt and petroleum was derived. Mike indicated that this criterion was developed by Bob Haddad based on an evaluation of samples from the Avila Tank Farm site during the preparation of the Human Health Risk Assessment. Regina Donohoe indicated that she was comfortable with the criteria and observed that it was on the conservative side and a good starting point.
- Bill Almas asked whether differentiating between asphalt and TPH was an Eco or Human Health issue. Regina explained that it is important to understand the vertical profile of TPH in the soil if the area is to be used as open space since the target zone for burrowing animals is 0-6 ft. Chuck Lambert indicated that it would also be useful to the human health risk assessment.
- Bill Almas was asked if there was any determination on possible land uses, which might be useful in identifying areas that are likely to remain open space or be developed. Bill indicated that we can not assume that any area will be developed at this point in time.

After the discussion, the conference call participants ratified the proposed approach for evaluating TPH profile in shallow soil prepared by Mike Rendina contingent on approval by Dan Niles.

Soil Sample Collection during the Upcoming Soil Gas Investigation

Becky Countway noted that the purpose for the discussion of the recommendations for soil sampling during the upcoming soil gas investigation was to familiarize the participants with the document and figures and provide the opportunity to ask clarifying questions. There was no expectation that the recommendations would be approved since there was not adequate time for review.

Becky then reviewed the basic methodology used to develop the recommendations. She also summarized the recommendations for each individual evaluation area (IEA). She noted that their recommendations focused on areas 1, 7 and 8 since there was limited contamination in these areas, and therefore, relatively little historic sampling data. The participants discussed the following points:

- Teri Copeland suggested testing for PCBs in areas where there were no PCB data to verify that PCBs were not present. Teri, Chuck Lambert and Becky Countway will discuss this issue further. *(Chuck Lambert subsequently reported that no PCBs were detected on site and that sampling was conducted in the industrialized areas where PCBs would most likely be found.)*
- Teri Copland raised the concern about adequacy of soil data for the evaluation of leaching to groundwater. It was noted that there is currently LNAPL on the surface of the groundwater in many of the areas where there are higher concentrations of TPH in soils. Mike Rendina observed that the RTP extensively reviewed the groundwater situation and concluded that there was a very low likelihood that the TPH contamination in groundwater would migrate off-site. The RWQCB is responsible for addressing the need for assessment of the leaching pathway and how the groundwater contamination will be addressed. Chuck Anders noted that Dan Niles has discussed the possibility of removal of the LNAPL in some areas with Chevron. The participants will look to Dan Niles for direction in this area.

Mike Rendina indicated that the earliest that they could begin field work would be June 18th. He indicated that he could accommodate the additional sampling as long as he had the approved procedures and sampling locations by June 28th. The participants indicated that they could complete their review of the recommendations by the end of the week. Chuck Anders will coordinate a time the week of June 4th for another conference call of the HHRWG and ERWG to further discuss and potentially approve the sampling recommendations. Becky Countway will email the revised figures as soon as possible.

Andrew Mutziger indicated that he would be away from the office the week of June 4th and will defer to Teri Copeland regarding approval of the sampling recommendations.

Upcoming Meeting Dates and Agenda Items

HHRWG/ERWG Conference Call – Week of June 4th (To be determined)

1. Review and approve recommendations for soil sample collection during upcoming soil gas investigation.

ERWG “Tentative” Conference Call – June 25th (9:30 - 10:30 AM)

1. Review comments to the Draft Wetlands Addendum
2. Ratify Wetland Addendum, if possible.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
3. Review Tech Memo addressing the human health risks of the cliff seeps
4. Next Steps

Avila Tank Farm Collaborative Assessment Team Combined Human Health Risk Working Group (HHRWG) and Eco Risk Working Group (ERWG)

Conference Call Summary

Date: June 6, 2007

Time: 8:30 AM – 10:30 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|---------------|-------------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Melissa Boggs-Blalack | CDFG | Jeff Poel | SLO County Health Dept. |
| Teri Copeland | SLO County Health Dept. | Mike Rendina | Avocet Environmental |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Jennifer Holder | ARCADIS BBL | | |

Welcome and Introductions

Chuck Anders welcomed the Human Health Risk Working Group (HHRWG) and Eco Risk Working Group participants and identified who was participating in the conference call. Participants who logged onto the conference web site could view the presentations and documents that were being discussed.

Ratify Previous Meeting Summary

The HHRWG and the ERWG participants ratified the Draft 5-31-07 HHRWG-ERWG Conference Call Summary ver1 with the following revisions:

- Teri Copeland clarified her comment regarding the adequacy of soil data for evaluation of leaching to groundwater.
- Regina Donohoe noted that she said she would like to see geophysical observations collected at 1-5 or 6 ft. rather than 1-2 ft.
- Chuck Lambert clarified that no PCBs were detected on site and that sampling was conducted in the more industrialized areas where PCBs would most likely be found.

Teri Copeland noted that non-detect for 46 PCB samples would be a good argument that PCB have been adequately characterized on the site. Regina Donohoe suggested that Chuck Lambert check into the laboratory detection limits for PCBs. Chuck will prepare a technical paper documenting the sampling procedure and detection limits so there is a historical record.

Soil Sample Collection during the Upcoming Soil Gas Investigation

Chuck Lambert and Mike Rendina reviewed the proposed locations where additional sampling would be conducted during the upcoming soil gas investigation for each of the individual evaluation areas (IEA):

- Area 1 – Teri Copeland and Jeff Poel recommended that the sample locations be closer to the pipeline, which is the primary source of contamination in Area 1. It was agreed to move three soil gas sample locations closer to the pipeline and the other two samples would be located spatially in the remaining area.
- Area 2 – Chuck and Mike will check to make sure samples are located in areas of highest concentrations consistent with discussion in Area 1. Mike noted that the objective of the soil gas survey is to define the spatial distribution of soil gas and further characterization of near sources areas where possible. He emphasized that additional sampling will most likely be necessary in the future and that the site is going to change significantly in areas where grading is conducted.
- Area 3 – No changes.
- Area 4 – Move two of the sample locations nearer to source areas.
- Area 5 – No changes.
- Area 6 – Move one soil gas sample location closer to B-95.
- Area 7 – Move one soil gas sample location closer to B-153. Bill Almas emphasized the need to check the archeological maps to avoid disturbing any archeological sites during sampling.
- Area 8 – No changes.
- Area 9 – No changes.
- Area 10 – Be sure to include confirmation samples in the area of the spill/cleanup in the northwest portion of the IEA. Chuck Lambert will include a paragraph in the discussion of this area.

The conference call participants approved the supplemental soil gas sampling plan with the changes that were discussed. Mike Rendina will prepare a revised sampling plan and distribute it to the participants. The revised soil gas sampling plan will also include the procedures and sampling locations for further characterization of TPH in shallow soils. Mike will also update the memorandum discussing characterization of TPH in shallow soils based on the discussion and revisions to the soil gas workplan. Melissa Boggs-Blalack requested that the name and type of PID used to screen the samples be included in the revised plan.

Discussion of TPH Leaching from Source Areas in Soils

There were questions raised during the May 31, 2007 conference call regarding how the potential for TPH in soils to leach to groundwater will be addressed. Dan Niles noted that his primary focus at this time is the removal of LNAPL from the surface of groundwater as an interim measure. He would also like to evaluate the leaching potential of the soils and questioned if leachability studies were cost effective and which type of test should be used. He emphasized the need to better understand what would drive the soil element (eco, human health or threat to groundwater). He observed that ecological concerns typically would be the primary driver from 1 – 10 ft. below ground surface.

Mike Rendina questioned the value of leachability tests since the RTP concluded that there is no potential for contaminants to move off-site except at the cliff seeps and the groundwater is very poor quality. Dan noted that source control using best available control technology along with long-term monitoring and deed restrictions could be an acceptable strategy as long as the contamination is stable. He emphasized the need to continue to evaluate the risks in light of the possible land uses to better understand how to address leaching in soils.

Upcoming Meeting Dates and Agenda Items

ERWG “Tentative” Conference Call – June 25th (9:30 - 10:30 AM)

1. Review comments to the Draft Wetlands Addendum
2. Ratify Wetland Addendum, if possible.

ATCAT Meeting – July 23rd (9:30 AM – 3:00 PM)

1. Review / ratify previous meeting/conference call summaries
2. Review results of soil gas investigation
3. Review Tech Memo addressing the human health risks of the cliff seeps
4. Next Steps

Avila Tank Farm Collaborative Assessment Team Meeting Summary

Date: September 24, 2007

Time: 9:30 AM – 2:15 PM

Location: Chevron Offices, 276 Tank Farm Road, San Luis Obispo

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|-----------------|--------------------------------|
| Bill Almas | Chevron | Jennifer Holder | ARCADIS BBL |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs-Blalack | CDFG | Andrew Mutziger | APCD |
| Teri Copeland | SLO County Health Dept. | Jeff Oliveria | SLO County Building & Planning |
| Becky Countway | McDaniel Lambert | Mike Rendina | Avocet Environmental |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Josh Fridell | Chevron | George Weber | ARCADIS BBL |

Welcome and Introductions

Chuck Anders welcomed the ATCAT participants. It was announced that Jeff Poel moved to Humboldt County and would no longer be participating in the ATCAT meetings.

Ratify Previous Meeting Summary

The ATCAT participants ratified the Draft 6-6-07 HHRWG-ERWG Conference Call Summary ver1 (contingent on Dan Niles' concurrence) with the following revisions:

- Correct "none-detect" in the last paragraph on the first page to "non-detect".
- Change "laboratory detections" in the last paragraph on the first page to "laboratory detection".

Safety Moment

Josh Fridell observed the importance of staying focused on-task for even the simplest activities. He related an incident where a field technician cut his hand when a sample jar broke while sealing the container.

Goals of ATCAT Process

Bill Almas discussed the overall goals of the ATCAT process, which included the following:

- Fill data gaps identified in the Preliminary Ecological Risk Assessment and the Human Health Risk Assessment in order to provide sufficient risk data to complete a feasibility study.
- Complete the wetland pERA addendum.
- Develop sufficient human health risk data to assure that development plans are doable.

Status of Site Development Plans

Bill Almas reviewed the previous activities to obtain community input into the development planning process, including four meetings hosted by Supervisor Jerry Lenthall and a separate community meeting sponsored by the Avila Valley Advisory Committee (AVAC). The report from the AVAC, which includes results from a questionnaire, is currently being compiled.

Bill reminded the ATCAT that Chevron has a business relationship with Rob Rossi who is putting the development plans together. He anticipates more information to be available by mid-October and will provide that information to the ATCAT by October 15th. Bill noted that the results of the four public meetings sponsored by Supervisor Lenthall are available on the internet at <http://www.avilafossilpoint.com>.

Revised Wetland pERA

Jennifer Holder briefly discussed the review process and most recent revisions to the revised wetland pERA, which addressed comments by Regina Donohoe and Melissa Boggs-Blalack. The ATCAT participants then ratified the revised wetland pERA contingent on approval by Dan Niles. It was agreed that Jennifer would provide a hard copy of the document to Josh Fridell who would then transmit it to Dan with a cover letter requesting approval by the RWQCB. After Dan's approval, Jennifer will distribute hard copies of the revised wetland pERA to members of the ATCAT.

Soil Sampling and Soil-Gas Survey Results

Mike Rendina presented the results of the soil-gas survey. A total of 138 soil gas samples were collected and analyzed for VOCs. A total of 89 soil samples were collected and analyzed for TPH, PAHs, VOCs, and metals. Eight samples were submitted and analyzed for physical parameters. The analytical results were reviewed for each of the 10 individual evaluation areas (IEAs).

Mike observed that there were some anomalous results that prompted them to collect 20 additional soil-gas samples on September 12th. Generally, the initial benzene detections were not confirmed at the same levels as the initial soil-gas survey in these locations. Mike could not offer an explanation as to why the difference occurred. The participants questioned whether results might be impacted by atmospheric pumping due to changes in barometric pressure since the fractured rock is quite permeable. It was agreed that a third round of samples would be collected. The participants suggested that additional sample locations closer to the fence line be installed to assess whether higher levels of benzene are observed immediately after installation. Teri Copeland also suggested utilization of a surface flux chamber to actually measure the levels of benzene emitted to the surface. Mike Rendina will draft a re-sampling plan by October 1st and distribute it the ATCAT for review. Comments should be provided back to Mike within one week. The third round of sampling will be conducted late the week of October 8th or the week of October 15th.

Mike also reviewed the soil sampling results. He noted that methane and chlorinated hydrocarbons were detected. Carbon tetrachloride was detected for the first time and vinyl chloride was detected in one sample. Soil samples tended to confirm mercury in similar concentrations as previous samples. No other metals stood out or were inconsistent with prior results. Mike will distribute the analytical results of the soil sampling to Regina Donohoe, Melissa Boggs-Blalack, Teri Copeland and Andy Mutziger by September 25th.

Depth to Petroleum Results

Mike Rendina presented the results of the depth to petroleum assessment. He explained that they evaluated all available on-site data to compile a composite map that presented the presence of petroleum at levels of 100 ppm or greater at 2-foot intervals from ground surface to 10 feet. It was generally agreed that the mapping identified the locations of TPH and effectively differentiated between the presence of weathered asphalt materials used for weed control throughout many portions of the site and the presence of petroleum. Samples in which 70% or more of total TPH occurs in the C₂₅-C₄₀ range were classified as asphalt and samples with less than 70% of total TPH in the C₂₅-C₄₀ range were classified as petroleum.

Mike Rendina will prepare a separate report documenting the results of the depth to petroleum assessment by October 12th.

Eco Risk Evaluation Matrix

Jennifer Holder provided a brief overview of the eco risk evaluation matrix. She observed that the soil sampling results confirmed previous levels of constituents and that there were no surprises. She indicated that the depth to petroleum map will help refine the locations of petroleum in shallow soils. She noted that ecological concerns will focus more on the areas that will not be developed or disturbed.

Jeff Oliveria questioned at what point the US Army Corps of Engineers should become involved. Bill Almas anticipates on-site mitigation since the total area of wetlands is less than one acre. Bill also noted that the California Coastal Commission will have an interest in how the wetlands are addressed. It was agreed to begin discussion with the US Army Corps of Engineers and the California Coastal Commission after the initial development plans are available.

Human Health Risk Evaluation Matrix

Chuck Lambert presented a brief overview of the human health risk evaluation matrix. He will revise the matrix to incorporate the new data after the development plans become available. He suggested a conference call of the Human Health Risk Working Group (HHRWG) to discuss the revised matrix and define any remaining data gaps.

Andy Mutziger expressed concern that the cumulative effects of exposure be considered since the residents of Avila Beach were previously exposed to air pollutants during remediation of the town site. It was agreed that this issue should be dealt with in the remediation feasibility study.

PCB Memorandum

Chuck Lambert presented a brief overview of the PCB Memorandum that was previously distributed for review. He noted that 50 samples were collected and that no detections of PCBs were observed. The participants discussed the relationship of the California Human Health Screening Levels (CHHSL) and the PCB analytical detection limits. It was agreed that the memorandum adequately documents the lack of PCBs observed on-site. The participants suggested adding a section that discusses the past use of transformers on-site and the relationship between the CHHSLs and analytical detection limits.

The ATCAT members provisionally ratified the PCB memo subject to review of the additions and approval by Dan Niles. Chuck Lambert will distribute the revised memo by September 27th. The ATCAT participants will provide their comments, if any, back to Chuck Lambert by October 5th.

Cliff Springs Human Health Risk Assessment Memorandum

Becky Countway presented an overview of the human health risk assessment for the cliff springs. They concluded that there was little health risk for beach goers below the former tank farm. The ATCAT participants discussed the results and suggested adding a paragraph on data quality objectives and including the laboratory results as an appendix.

The participants provisionally ratified the memorandum subject to review of the additions and approval by Dan Niles. Chuck Lambert will distribute the revised memo by October 3rd. Josh Fridell will submit the revised draft to Dan Niles requesting RWQCB approval on October 5th.

Next Steps

It was agreed that the development plans were necessary in order to determine the adequacy of the risk evaluation matrices and effectively assess whether there were any remaining data gaps. Therefore, the ERWG and HHRWG will convene via conference call to review their respective risk evaluation matrix and discuss whether there are any remaining data gaps after the data plans are available.

- ERWG Conference Call – Monday October 29 – 9:30 AM – 11:00 AM
- HHRWG Conference Call – Wednesday November 7th - 9:30 AM – 11:00 AM

Action Items

Following is a list of action items resulting from the meeting:

1. Bill Almas will provide the initial site development plans to the ATCAT by 10/15/07.
2. Jennifer Holder will send a hard copy of the revised wetland pERA to Josh Fridell by 9/28/07. Josh will transmit the document to Dan Niles with a cover letter requesting RWQCB approval by 9/28/07. Jennifer Holder will distribute hard copies to the ATCAT members after final approval.
3. Mike Rendina will distribute the soil-gas re-sampling plan to the ATCAT for review by 10/1/07. ATCAT members will provide comments back to Mike by 10/8/07. Mike will begin field work late the week of 10/8/07 or the week of 10/15/07.
4. Mike Rendina will prepare and distribute a separate report documenting the results of the depth to petroleum assessment by 10/12/07.
5. Mike Rendina will provide soil sampling data to Teri Copeland, Regina Donohoe, Melissa Boggs-Blalack and Andrew Mutziger by 9/25/07.
6. Chuck Lambert will distribute the revised PCB memo to the ATCAT members by 9/27/07. ATCAT members will respond with comments, if any, by October 5th.
7. Chuck Lambert will distribute the revised cliff springs memo by 10/3/07. Josh Fridell will submit the revised draft to Dan Niles requesting RWQCB approval on 10/5/07.

Upcoming Meeting Dates and Agenda Items

ERWG Conference Call – Monday, October 29 (9:30 AM – 11:00 AM)

1. Review adequacy of risk evaluation matrix
2. Identify any additional data gaps

HHRWG Conference Call – Wednesday, November 7th (9:30 AM – 11:00 AM)

1. Review adequacy of risk evaluation matrix
2. Identify any additional data gaps

Avila Tank Farm Collaborative Assessment Team Meeting Summary

Date: December 3, 2007

Time: 9:30 AM – 2:45 PM

Location: Pelican Point Restaurant, Pismo Beach, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|------------------|----------------------|
| Bill Almas | Chevron | Andrew Mutziger | APCD |
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Melissa Boggs-Blalack | CDFG | Jeff Oliveria | SLO County Planning |
| Teri Copeland | SLO County Health Dept. | Mike Rendina | Avocet Environmental |
| Becky Countway | McDaniel Lambert | Rob Rossi | Fossil Point LLC |
| Ryan Hostetter | SLO County Planning | Debbie Rudd | RRM Design |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Josh Fridell | Chevron | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ARCADIS BBL | George Weber | ARCADIS BBL |
| Chuck Lambert | McDaniel Lambert | | |

Ratify Previous Meeting Summary

The ATCAT participants ratified the Draft 9-24-07 ATCAT meeting summary ver2.

Safety Moment

Josh Fridell noted the importance of staying focused during the holidays. He observed that people are often distracted during the holidays and accidents and injuries can often happen with things as simple as playing a video game.

Cliff Springs Human Health Risk Assessment Memorandum

At the 9/24/07 ATCAT meeting, the participants provisionally ratified the memorandum subject to review of additions and approval by Dan Niles. Becky Countway briefly reviewed the suggested clarifications provided by Dan Niles. The ATCAT then unanimously ratified the revised Cliff Springs Human Health Risk Assessment Memorandum.

Review of Site Development Plans

Bill Almas reviewed history of the site planning activities. He noted that four public meetings, hosted by Supervisor Jerry Lenthall, were held in the spring to obtain public input regarding community concerns and potential site uses. Subsequently, the Avila Valley Advisory Committee (AVAC) hosted additional public forums and prepared a questionnaire to identify public preferences regarding potential site uses. The preferred options leaned towards open space, a regional park and a Chumash healing center. He noted that the AVAC recommendations were transmitted to Dave O'Riley within Chevron who will prepare a formal response to the AVAC.

Various other community groups have independently prepared separate proposals that were generally consistent with the AVAC results. A group of community residents, including Fred Collins, an Elder with the Northern Chumash Tribal Council prepared a preliminary concept plan for the site based on the healing theme. Rob Rossi of Fossil Point was asked to give advice to the group as well. The proposal will be presented at a community meeting in Avila Beach tonight at 5:00 PM. Students from a senior level Cal Poly architectural class have been working with Fred Collins to prepare concept plans and actual scale models of a Chumash cultural center, which will also be displayed at the community meeting in Avila Beach.

Bill indicated that Chevron and Fossil Point LLC would like to use the proposed site plan as a basis to move forward and conduct the risk assessment. He recognized that the risk analysis was 4-5 months behind where he had hoped it would be; however, there was substantial diversity of opinion within the community and he felt it was best to allow the community to develop proposals that were acceptable to the community. He envisions preparing the risk management plan in the next two months based on the data already collected. The risk management plan will be a precursor to the remedial action plan (RAP). The feasibility study will be integrated into the RAP which he hopes will be completed around April 2008. The ATCAT would continue its activities through completion of the RAP at which time the document would be formally submitted to the appropriate agencies for approval. Bill will be coordinating the risk assessment aspect of the project with the ATCAT while Rob Rossi will be coordinating the design aspects of the project with the community and architectural design firms.

Rob Rossi reviewed the draft site plan that was drafted by SDG. The site plan is a collection of proposed concepts developed throughout the public outreach process. Rob noted that approximately 43 acres of the 95 acre site has been disturbed from prior development. The proposed site plan uses about 19-20 acres of the 43 acres that have been previously altered. Access would be provided on existing roads and no undisturbed areas would be impacted. Existing wetland areas would not be impacted and could even be enhanced with gardens, etc. No significant grading is anticipated.

The design concept includes a full range of accessibility from youth/senior hostels to a small boutique hotel. The concept is for a "visitor-serving" site with no permanent residential development except for workforce housing in the northeast portion of the property. Rob envisions the lodge and point of entry in the draw area with parking provided in areas where removal of pipes and underground features would be required. Rob has been investigating utilization of solar roofs, which would generate enough energy to support the site plus approximately 1 MW additional power. Rob anticipates providing beach access through a stair system. Aaron Hostetter questioned whether the California Coastal Commission (CCC) currently allowed stair access to beaches. It was agreed that Bill Almas and Debbie Rudd would brief the CCC on the wetland issues and proposed site development plans.

Jeff Oliveria observed that the proposed project would require an amendment to the Avila Specific Plan. He questioned whether the proposed project would include a remediation plan. Bill Almas indicated that he anticipates proposing a project that integrates remediation into the design. Jeff also observed that a new law required consultation with tribal communities for a general plan amendment and was please to see the design team working with the Chumash community.

Bill Almas noted that in order to submit a draft RAP for agency review in April, the risk management plan would have to be completed within the next few months. This would require a more refined design plan to be completed within 2-3 months. Rob will review additional input in December and then circle back with more refined information in February.

Supplemental Soil-Gas Survey

Mike Rendina indicated that the supplemental soil-gas survey has been completed. Avocet installed four new soil-gas probes and sampled 20 existing locations for a total of 52 soil gas samples. They have received only limited data back from the laboratory and will distribute the new data as soon as they are available.

It was noted that the report documenting the TPH-at-depth results had not been distributed. Mike will complete the report and distribute it to the ATCAT by 12/21/07.

Eco Risk Evaluation Matrix

Jennifer Holder presented a figure that identified development “bubbles” that were derived from the draft site development plan drafted by SDG. The figure also shows the individual evaluation areas (IEAs) that were used to structure the evaluation in both the eco risk evaluation matrix and the human health risk evaluation matrix. It was observed that the bubbles fit within the IEAs with only slight overlap in a couple of areas.

Jennifer reviewed the utility of using the matrix to evaluate risks and the participants agreed to continue to use the matrices and IEAs. Mike Rendina will adjust the boundaries of the IEAs so that all development bubbles are completely contained with a single IEA. It was agreed that the eco risk analysis will focus on those areas within each IEA that are outside of the development bubbles (negative areas). Jennifer pointed out that it will be necessary to better understand how wetlands are going to be handled since some wetland areas are currently shown within development bubbles.

It was agreed that the pERA would be updated with the new figures and supplemental soil gas data. Jennifer Holder will work with Chuck Lambert to develop a naming scheme for the IEAs and development bubbles.

Human Health Risk Evaluation Matrix

Chuck Lambert reviewed potential new risk receptors based on the proposed site development plan, including campers, amphitheater users, parking lot users and construction workers. He had questions regarding how community gardens would be used and Bill Almas agreed to follow-up with the community to flesh out what was intended.

It was agreed that a stand-alone addendum to the current 2005 baseline human health risk assessment would be prepared based on the current site development concepts and would include the supplemental soil, ambient air and soil gas data. Bill Almas will work with the community and Rob Rossi to identify the design concept plan that will be used as the basis for the risk analysis by mid-December. It was agreed not to include remediation exposures until the extent of remediation was better delineated; however, cumulative exposure to town-site residents will be analyzed when the remediation exposure is assessed.

It was agreed to have Neptune prepare a data usability analysis for the new soil-gas data. Mike Rendina and Chuck Lambert will coordinate with Teri Copeland to contact Neptune.

Chuck Lambert will conduct a preliminary evaluation of the current development bubbles diagram to identify any suggested revisions. He will use existing data for the preliminary assessment and will not wait for the formal data usability analyses for the preliminary evaluation. Chuck will coordinate with Debbie Rudd to identify potential issues and possible design modifications.

Dan Niles raised the issue of developing a threshold level of the cliff springs discharge. Chuck Lambert and Becky Countway will prepare a flow chart type decision tree for review by the ATCAT.

Risk Management Plan

The objective of the risk management plan is to identify where remediation is required in order to support the desired land use. It was agreed that the risk management plan would be based on the final proposed site design, which should be available in February/March 2008.

Next Steps

The ATCAT scheduled a conference call for January 22, 2008 after Chuck Lambert, Becky Countway and Debbie Rudd have an opportunity to complete the preliminary human health risk evaluation and identify potential design changes. Meeting agenda items would include:

1. Finalization of development bubbles to be used in the eco and human health risk evaluation matrix analysis
2. Agreement on data usability
3. Agreement on the form of the risk management plan
4. Schedule for completion of the risk management plan

Action Items

Following is a list of action items resulting from the meeting:

1. Mike Rendina will distribute supplemental soil-gas analytical results by 12/10/07.
2. Jennifer Holder will update the pERA and associated figures to reflect the new sampling data by 12/21/07.
3. Jennifer Holder and Chuck Lambert will develop a naming scheme for the development bubbles and IEAs.
4. Bill Almas will flesh out what is envisioned by the term "community gardens" by mid-December.
5. Bill Almas will work with the community and Rob Rossi to identify the design concept plan that will be used as the basis for the risk analysis by mid-December.
6. Mike Rendina will prepare a TPH-at-depth memo by 12/21/07.
7. Jennifer Holder and Becky Countway will prepare a threshold memo for the cliff springs by 12/21/07.
8. Bill Almas and Debbie Rudd will update the CCC on the status of the proposed project, including wetland issues, during January 2008.
9. Mike Rendina and Chuck Lambert will coordinate with Teri Copeland to contact Neptune to conduct the data usability analysis.
10. Chuck Lambert and Becky Countway will complete a preliminary human health risk evaluation and work with Debbie Rudd to identify and evaluate potential design changes that will reduce human health risks by mid-January.

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call – Tuesday, January 22, 2008 (10:00 AM – 12:00 PM)

1. Finalization of development bubbles to be used in the eco and human health risk evaluation matrix analysis
2. Agreement on data usability
3. Agreement on the form of the risk management plan
4. Schedule for completion of the risk management plan

Avila Tank Farm Collaborative Assessment Team Meeting Summary

Date: March 11, 2008

Time: 9:30 AM – 1:45 PM

Location: RWQCB Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|-----------------|----------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Andrew Mutziger | APCD |
| Melissa Boggs-Blalack | CDFG | Dan Niles | RWQCB |
| Teri Copeland | SLO County Health Dept. | Jeff Oliveria | SLO County Planning |
| Becky Countway | McDaniel Lambert | Mike Rendina | Avocet Environmental |
| Regina Donohoe | CDFG | Rob Rossi | Fossil Point LLC |
| Josh Friddell | Chevron | Debbie Rudd | RRM Design |
| Gonzalo Garcia | Chevron | Rick Stout | URS |
| Jennifer Holder | ARCADIS BBL | George Weber | ARCADIS BBL |

Ratify Previous Meeting Summary

The ATCAT participants ratified the Draft 12/3/07 ATCAT meeting summary ver2 as written.

Safety Moment

Bill Almas briefed the ATCAT participants on his recent trip to Nigeria as part of a Rotary International / World Health Organization team to eradicate polio worldwide. He noted that there were less than 1,000 reported cases of polio last year and the goal of the participating organizations was to completely eradicate polio similar to the success with smallpox. Bill emphasized the importance of clean water as a critical element of public health.

Cliff Springs “Action Level” Memorandum

Becky Countway briefly reviewed the purpose and background of the Cliff Springs “Action Level” memorandum. Regina Donohoe questioned whether the carcinogenic PAHs would adequately address protection of aquatic receptors since they were more likely to be exposed to water soluble PAHs. It was agreed that Becky Countway and Jennifer Holder would prepare a revision to the memorandum addressing the ecological protection concerns by March 18th and distribute it to the Eco Risk Working Group (ERWG) for review and revision, if necessary. The final draft will be circulated and ratified via email.

Dan Niles would like to formalize the monitoring / reporting program (similar to what was done for the sub-tidal plume) after the threshold memo is finalized so that there is an agreed on response protocol in the event of an exceedance.

Site Development Plan Update

Bill Almas and Rob Rossi indicated that the site development concept plan that the ATCAT is currently working with is consistent with the concept plan proposed by the local community group in late 2007. They will continue to work with the community to refine this plan, which emphasizes Chumash history and energy conservation themes.

Bill indicated that he believes the current plan is adequate for discussion of the risk issues. Bill noted that he hopes to complete the risk management plan by the end of April. The risk management plan will provide the necessary information to complete a focused feasibility study and remedial action plan. He would like to submit a development application to the County by mid-summer.

Risk Management Plan

Jennifer Holder provided an overview of the risk management plan approach. She noted that the purpose of the plan was to identify areas of the site that may require some form of risk management based on the results of the ecological risk and human health assessment efforts. The document will include a re-evaluation of the ecological and human health risks based on the proposed site development plan. The risk management plan will be used to focus the feasibility study. The focused feasibility study will address where and what type of remediation is required. Andy Mutziger raised the issue of construction related risks. It was agreed that community-wide construction related risks would be addressed in the subsequent CEQA process.

Jennifer reviewed the development bubble diagram, which is based on the propose concept plan. She noted that the individual evaluation areas (IEAs) previously used to segment the site into consistent assessment areas were adjusted slightly to be consistent with the most recent version of the development bubbles.

She noted that the current approach is for the ecological risk evaluation to focus on areas outside the development bubbles and the human health risk evaluation to look at specific uses within the development bubbles plus the recreational use outside the development bubbles. This approach presumes that the ecological exposure within the development bubbles would be insignificant. Melissa Boggs-Blalack suggested a 2-tier approach where the ecological risks would also be evaluated within the development bubbles in case development was delayed or there was a significant portion of the bubble that was not developed.

Jennifer reviewed a draft outline of the risk management plan. She envisions a concise summary of the risk evaluation process and findings supported by a comprehensive appendix of supporting documents. The results of the ecological and human health risk evaluations would be presented for each IEA. Ground-water quality and the cliff springs exposures would be discussed on a site-wide basis. The results of the risk management plan would be the beginning point of the focused feasibility plan / remedial action plan. Dan Niles suggested mentioning that the water supply for the site would not be from ground water. It was agreed to include a brief discussion of institutional controls as a segue to the focused feasibility study.

Ecological Risk Evaluation for Risk Management Plan

Jennifer Holder reviewed the draft eco risk evaluation matrix that was previously distributed to the Eco Risk Working Group (ERWG) for comment. Regina Donohoe asked if the current wetlands located within the development bubbles would be maintained or if they would be relocated outside the development areas. Debbie Rudd said that she envisions that the wetlands would likely stay within the development bubbles and possibly be enhanced or combined. It was noted that this issue would be addressed if a 2-tier ecological risk management approach was adopted. After additional discussion, the ATCAT agreed to proceed with a 2-tier ecological risk management approach where 1) the risks outside the development bubbles would be assessed as originally planned; and 2) the risks for the complete site, including the development bubbles, would be assessed. Jennifer will prepare a revised version of the eco risk

management matrix using the 2-tiered approach and distribute it to the ERWG by March 21st. The ERWG scheduled a conference call on April 1st from 2:00 PM – 4:00 PM to discuss the draft and agree on the preliminary recommendations for each IEA. The call may be rescheduled to an earlier date if the data are available. (Note: Regina is not available the week of March 24th and March 31st is a state holiday.)

Mike Rendina distributed and discussed a memorandum evaluating the TPH profile in shallow soils that was prepared in response to Regina's request to better understand the distribution of TPH in shallow soils. Mike noted that the figure differentiates between petroleum and asphalt materials that were used on the site for weed control and fire suppression. The analysis, which was based on all available data and field observations, identifies areas where petroleum is present in concentrations greater than 100 mg/kg at 2-foot intervals from 2 feet to 10 feet below ground surface. Regina noted that this was exactly the information she was looking for.

Human Health Risk Evaluation for Risk Management Plan

Chuck Lambert provided an overview of the risk management approach and reviewed the preliminary human health risk evaluation matrix results for each of the thirteen development bubbles. The receptors for each area are based on the most recent site development plan previously discussed. Risk assessments for construction workers, maintenance workers and general recreation site-wide will be completed soon. It was noted that the garden area will provide organic produce for consumption on-site. An additional use bubble was designated for the garden area and an appropriate human health risk assessment will be conducted.

It is anticipated that the data usability and validation analysis currently being conducted by Neptune should be completed by March 14th. No significant problems with the data have been reported to date. Once the report is received and reviewed, the results will be integrated into the human health risk assessment to determine if there are any significant data gaps. Assuming there are no major data issues, Chuck anticipates completion of the risk calculations and preparation of the risk evaluation report by mid/late April. He will organize the data into a risk management matrix format similar to the ecological risk matrix prepared by Jennifer Holder and provide it to Jennifer for inclusion in the draft risk management plan. Chuck will also notify the ATCAT members regarding the results of the data usability and validation analysis when it is received from Neptune.

Next Steps

Jennifer Holder and Chuck Lambert will work with the ERWG and HHRWG to finalize the ecological and human health risk evaluations. The results will be integrated into the draft risk management plan for review by the ATCAT at the May 20th meeting.

Action Items

Following is a list of action items resulting from the meeting:

1. Becky Countway and Jennifer Holder will prepare a revision to the Cliff Springs Action Level memorandum addressing ecological protection from non-carcinogenic PAHs by March 18th and distribute it to the ERWG for review. The final draft will be circulated to the ATCAT for ratification via email.
2. Jennifer Holder will prepare a revised version of the eco risk management matrix using the 2-tiered approach and distribute it to the ERWG by March 21st. The ERWG will meet via conference call on April 1st from 2:00 PM – 4:00 PM to discuss the draft and agree on the preliminary recommendations for each IEA.
3. Chuck Lambert will work with the HHRWG to complete the draft human health risk evaluation report, including a risk management matrix for inclusion in the risk management plan, by mid/late April.

4. Chuck Lambert will notify the ATCAT regarding the results of the data usability and validation analysis when it is received from Neptune.
5. Jennifer Holder will prepare a final draft of the risk management plan and distribute it to the ATCAT for review prior to the May 20th ATCAT meeting.

Upcoming Meeting Dates and Agenda Items

ERWG Conference Call – Tuesday, April 1, 2008 (2:00 PM – 4:00 PM)

1. Review and revise the 2-tier ecological risk assessment

ATCAT Meeting in SLO – Tuesday, May 20, 2008 (9:30 AM – 3:00 PM)

1. Review/ratify draft ecological risk evaluation
2. Review/ratify draft human health risk evaluation
3. Review/ratify draft risk management plan

Avila Tank Farm Collaborative Assessment Team

Meeting Summary

Date: May 20, 2008

Time: 9:30 AM – 3:20 PM

Location: RWQCB Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|-------------------|----------------------|
| Chuck Anders | Strategic Initiatives | Andrew Mutziger | APCD |
| Melissa Boggs-Blalack | CDFG | Dan Niles | RWQCB |
| Alexander Bugrov | APCD | Mike Rendina | Avocet Environmental |
| Louis Cappel | Padre Associates | Rob Rossi | Fossil Point LLC |
| Teri Copeland | SLO County Health Dept. | Debbie Rudd | RRM Design |
| Becky Countway | McDaniel Lambert | Eric Snelling | Padre Associates |
| Regina Donohoe | CDFG | Rick Stout | URS |
| Josh Friddell | Chevron | Robert Van Hyning | Avocet Environmental |
| Jennifer Holder | ARCADIS BBL | George Weber | ARCADIS BBL |
| Chuck Lambert | McDaniel Lambert | | |

Ratify Previous Meeting Summary

The ATCAT participants ratified the Draft March 11, 2008 ATCAT meeting summary ver2 as written.

Safety Moment

Josh Fridell indicated that Chevron stresses preparing a journey management plan for business and personal trips. Preparation of travel plans help assure that all prior arrangements are made and anticipate possible contingencies.

Cliff Springs “Action Level” Memorandum

ATCAT participants formally ratified the Final “Action Levels” for Cliffs Springs Seeps dated April 4, 2008.

Site Development Plan Update

Rob Rossi informed the group that they were working on refinements to the site development plan with an expanded community group. He noted that the refinements are consistent with the current concept plan that the ATCAT is using to prepare the risk assessments. He hopes to have a revised site development plan by the end of May.

Rob indicated that they needed to consider the implications of grading requirements to address environmental concerns. No significant grading is required for current site development plan purposes. He noted that they are anticipating using the existing tank berms for visual screening.

Groundwater Quality

Mike Rendina provided an overview of the previous groundwater quality studies at the site. He noted that groundwater investigations began in 1997 and that there were over 300 borings, 87 monitoring wells and 37 separate sampling events conducted. He reviewed the site geology and hydrology noting that fractures in the rock strata underlying the site are the primary means for groundwater movement and that there is no significant communication between the shallow groundwater and deeper groundwater. The natural groundwater quality is generally poor frequently exceeding drinking water quality standards with very low yields.

Onsite springs and seeps flow several weeks during years of average or above average rainfall. Sixty-nine samples have been collected from the cliff springs since 1998 and tested for TPH, VOCs and PAHs. No VOCs have been detected and the 2007 human health risk assessment concluded that there was no significant risk to human health from exposure to the cliff springs.

Groundwater monitoring is currently ongoing at 75 on-site wells and 3 off-site wells. LNAPL with chemical characteristics very similar to crude oil has been observed in 31 wells with 17 well casings containing measurable amounts greater than 0.01 feet. Baildown tests indicate that the LNAPL is capable of moving at up to 0.3 ft. /day; however, empirical data suggest that the fractures do not exhibit this speed and that the LNAPL is actually moving very slowly. The level of LNAPL observed in well casings will vary depending on groundwater elevations due to the variability of the rock fractures.

Mike explained that the hydrologic data was reviewed by a panel of three university experts known as the Remediation Technology Panel (RTP) and that the RTP published a report, which included the following findings and conclusions:

- Groundwater movement is governed by a fractured rock system which is very discontinuous.
- It is very unlikely that LNAPL or other contaminants will move offsite to the north, east, southeast or west. Continued monitoring is recommended for the cliff springs on the southwestern edge of the site.
- Evidence demonstrates that natural attenuation of petroleum is occurring at the site.

It was noted that State Water Quality Control Board (SWQCB) resolution 92-49 requires clean-up to background levels or to do what is reasonable to get to background levels. It was agreed that this requirement would be addressed in the feasibility study.

Regina Donahoe questioned to what extent the LNAPL impacted soil gas. Mike said that the primary source of soil gas at the site was concentrations of contaminants in the soil. He noted that the impacts from LNAPL could play a larger role if the soil were remediated.

Ecological Risk Evaluation for Risk Management Plan

Jennifer Holder provided an overview of the draft ecological risk evaluation that the Ecological Risk Working Group was developing. She noted the addition of an additional spatial designation, which she called Petroleum Affected Zones (PAZs), to delineate the areas of elevated non-asphaltic TPH concentrations in surface soils. PAZs are designated with a roman numeral, while the Individual Evaluation Areas (IEAs) are designated by numbers and the development bubbles or Human Health Evaluation Areas (HHEAs) are designated by letters.

Jennifer noted that the apparent source of mercury in the soil at the site is from degrading asphalt material sprayed on the soil surface to retard plant growth. Leaching from this type of material is limited and; therefore, they have concluded that the mercury hotspots present an acceptable level of risk to site ecological receptors.

Jennifer explained that the eco risk evaluation is being prepared for two scenarios. One scenario assumes that no development takes place on the site and the whole site is available as habitat and a second scenario assumes that the areas within the development bubbles are disturbed and not available for habitat. She reviewed the draft evaluation and recommends for two areas to demonstrate how the matrix was used.

The participants agreed that it was critical that the terms used in the risk management plan (RMP), eco risk evaluation (ERE) and the human health evaluation (HHRE) be consistent with the terms used in the community process. For example, "open-space" in the HHRE is the same as recreation while "open-space" in the ERE is the same as habitat. It is important to have consistency and a glossary of terms.

Human Health Risk Evaluation for Risk Management Plan

Chuck Lambert provided an overview of the draft human health risk evaluation that the HHRWG has been working on. He reviewed Neptune's findings regarding data validation and usability. He also reviewed the COPC selection and noted that the 2007 data suggested a re-evaluation of molybdenum and thallium. Chuck and Becky Countway then summarized the findings for each exposure area.

Alex Bugroy questioned if the findings would change if the soil was reconfigured due to grading. Chuck noted that the HHRE was for undisturbed site conditions. Teri Copeland emphasized the importance to clarify that the HHRE assumes existing site conditions. It was agreed that the implications of grading will be addressed in the FS/RAP.

The participants discussed the building parameters that were assumed in the draft HHRE. Debbie Rudd will prepare a memo defining the building design parameters for commercial buildings to be used as a default value in the HHRE.

Chuck Lambert reviewed the steps necessary to complete the draft HHRE:

- address any concerns with the risk calculations,
- agree on recommendations for each development area,
- incorporate any additional comments into the draft HHRE, and
- ratify the revised draft document.

Teri Copeland noted that the public agencies reviewing the draft HHRE intend to meet to discuss and coordinate comments.

Risk Management Plan

Jennifer Holder reviewed the objectives and organization of the risk management plan (RMP). She envisions that the RMP will include the ERE and HHRE among other documents as appendices and that the ERE and HHRE will be ratified as part of the RMP. She plans to send out the draft RMP tables, text and figures in hard copy and provide the appendices in a CD.

The RMP will provide recommendations for 1) the proposed development scenario and 2) the no-development scenario. Recommendations will be organized by applicable IEA, HHEA or PAZ. The recommendations will be organized by the following action types for those areas that fail the risk screening:

1. Additional sampling recommended
2. Removal action
3. Revise development plan

Jennifer briefly reviewed the preliminary recommendations for the two scenarios. A section discussing groundwater quality will be included in the RMP. A discussion on health-based protective levels and ecological action levels will also be included. It was agreed that recommendations should reflect "what" should be achieved not "how" to achieve it. (i.e. reduce soil gas concentrations not install barrier.)

Jennifer suggested the following sequence of activities to finalize the RMP:

1. Distribute the RMP for review.

2. Revise and finalize the appendices, which includes the ERE and HHRE.
3. Revise and finalize the RMP.
4. Ratify the RMP and appendices.

Feasibility Study

Robert Van Hying indicated that the feasibility study (FS) would be based on the proposed development plan and would not include a full range of alternative site uses. The FS will rely on more traditional remedial strategies such as removal, separation, soil vapor extraction, etc. More exotic and unproven technologies will not be considered. He noted that Chevron will require that all buildings have a vapor barrier whether required by the RMP or not.

Robert suggested consolidating the IEAs, HHEAs and PAZs into fewer operable units (OUs) for purposes of the FS. He would prefer to work with four OUs for soil/surface water and one OU for groundwater.

Robert will prepare and distribute a preliminary outline for the FS within two weeks. He will include draft remedial action objectives in the outline.

Next Steps/Action Items

The ATCAT participants agreed to the following schedule of activities:

| No. | Activity | Date Due | Responsibility |
|-----|--|----------|------------------|
| 1 | Prepare and distribute the background metals addendum. | May 27 | Chuck Lambert |
| 2 | Prepare a memo defining the building design parameters for commercial buildings on the site. | June 3 | Debbie Rudd |
| 3 | Review and provide comments on the draft soil gas report. | June 3 | ALL |
| 4 | Review and provide comments on the draft TPH in shallow soils report. | June 3 | ALL |
| 5 | Prepare and distribute the draft ERE. | June 3 | Jennifer Holder |
| 6 | Prepare and distribute a draft outline of the FS. | June 3 | Robert Van Hying |
| 7 | Review and provide comments on the draft HHRE. | June 9 | ALL |
| 8 | Review and provide comments on the background metals addendum. | June 10 | ALL |
| 9 | Review and provide comments on the draft ERE. | June 20 | ALL |
| 10 | Prepare and distribute the draft RMP. | June 20 | Jennifer Holder |
| 11 | Review and provide comments on draft RMP | July 11 | ALL |

The ATCAT participants recognized the potential that reviewing the draft RMP, ERE and HHRE at the same time could result in changes to one document that would impact the other documents.

Upcoming Meeting Dates and Agenda Items

Agency Participants – Tuesday, June 3, 2008 (9:30 AM – 12:30 PM)

1. Coordinate comments on the draft HHRE.

ATCAT Meeting in SLO – Tentative Dates - Tuesday, July 22, 2008 or August 12, 2008 (9:30 AM – 3:00 PM)

1. Review (and possibly ratify) draft RMP.
2. Review preliminary draft of FS.

Avila Tank Farm Collaborative Assessment Team Meeting Summary

Date: August 12, 2008

Time: 9:30 AM – 1:20 PM

Location: RWQCB Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------------|-------------------------|------------------|----------------------|
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs-Blalack | CDFG | Andrew Mutziger | APCD |
| Katie Butler | McDaniel Lambert | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Mike Rendina | Avocet Environmental |
| Teri Copeland | SLO County Health Dept. | Rick Stout | URS |
| Regina Donohoe | CDFG | Robert Van Hying | Avocet Environmental |
| Josh Friddell | Chevron | George Weber | ARCADIS BBL |
| Jennifer Holder | ARCADIS BBL | | |

Ratify Previous Meeting Summary

The ATCAT participants ratified the Draft May 20, 2008 ATCAT meeting summary ver1 as written.

Safety Moment

Josh Friddell discussed a recent fatal accident in Santa Maria where a water truck, operated by one of Chevron's contractors, rolled over and the driver died. He noted that driving a water truck was not a typically dangerous activity. He emphasized the need to keep focused on the task at hand no matter how routine it may seem.

Site Development Plan Update

Bill Almas indicated that the conceptual site plan (including the development bubbles) used as the basis for the Risk Management Plan (RMP) remains valid. Rob Rossi and Chevron continue to talk with individuals in the Avila community to develop more detail in preparation for the permit application. These refinements, such as clarification of building sizes, are included in the most recent draft of the human health risk evaluation.

Human Health Risk Evaluation for Risk Management Plan

Chuck Lambert provided an overview of the comments provided by the County Health Department and the Air Pollution Control District. He noted that the following changes were made in response to their comments:

- A new background metals assessment was conducted.
- The Avila resident was added as an additional receptor.
- The EPCs were recalculated using a different method.
- Exposure assessments and J&E assumptions were standardized.

- A discussion of the 0 – 2-foot soil profile was added.
- A risk evaluation for methane in open space was included.
- Risk management conclusions are qualified as “suggestions for the RMP.”

Katie Butler reviewed the revised metals background evaluation. She noted that McDaniel Lambert conducted an analysis using a revised statistical methodology recommended by Neptune and Associates for each exposure area. The original assessment looked at the full site as one area. As a result, antimony, arsenic, lead, mercury, thallium and vanadium failed in at least one area.

Chuck Lambert indicated that arsenic would drive the risk conclusions in Area H. He noted that there were no residential or permanent structures planned for Area H. Mike Rendina reviewed the geology in Area H and concluded that the source of the arsenic is geologic rather than anthropogenic based on the following observations:

- The three highest arsenic concentrations occurred between depths of 15 – 25 ft., and
- Arsenic is typically associated with pyroclastic rock similar to the Obispo formation located throughout the site and outcropping in Area H.

It was agreed to carry arsenic through the risk assessment and discuss geology as a likely source as part of the analysis. Chuck will draft a discussion of arsenic and send it to Teri Copeland for review by the end of the week.

It was also agreed to include a discussion in the RMP about why the statistical methods to establish background levels for metals was different for the human health risk assessment and the ecological risk assessment. This was due to the fact that wildlife moves throughout the site, which requires a site wide perspective.

Chuck Lambert concluded by reviewing the uses and receptors to be used for each evaluation area. He will proceed with updating the risk calculations and distribute a draft human health risk evaluation by the end of August.

Andy Mutziger questioned whether the implications of an earthquake should be discussed in the human health risk evaluation. Chuck Lambert noted that natural disasters were typically addressed in the risk management phase of the analysis. Jennifer Holder recalled that the draft RMP states that the observations and conclusions are based on current conditions. Regina Donohoe noted that an ongoing monitoring strategy would be required for remediation elements.

Risk Management Plan / Ecological Risk Evaluation

Jennifer Holder noted that the primary objective of the risk management plan was to provide risk recommendations to responsible agencies and Chevron. She noted that the RMP assumes that the future site use will include a significant visitor-serving component and the RMP, therefore, does not focus on the “No Development” scenario.

The RMP evaluates the following types of areas:

- Initial Evaluation Areas (IEAs)
- Human Health Exposure Areas (HHEAs), and
- Soils Management Areas (SMAs - areas with non-asphaltic petroleum >1,000 mg/kg below 6 ft. bgs)

The guiding assumptions include:

- The site will be redeveloped into mixed use activities. Areas outside the development bubbles (HHEAs) are considered viable ecological habitat.
- Chevron will assure that at least 6-ft. of separation exists between receptors and non-asphaltic petroleum with concentrations greater than 1,000 mg/kg.
- The RMP recommendations are based on the proposed development plan. Risks for the “No Development” scenario are included in the appendix.

Jennifer noted that the RMP includes Recommendations for:

- Soil and sediment impacted by inorganic compounds
- Petroleum-impacted soil, and
- Soil vapor (indoor air impacted by VOCs)

Other issues that were addressed include:

- Groundwater (remedial action driven by regulatory requirements that are not risk related)
- Cliff erosion
- Asphalt
- Soil Management

Risk management tools include:

- TPH human health based protective concentrations
- Action levels (Cliff springs and potential soil vapor concentrations)

Regina Donohoe observed that there appears to be a disconnect because the 1,000 mg/kg soil separation level is not tied to a risk number. Bill Almas stated that the 1,000 mg/kg level is generally accepted as a screening level for petroleum impacted soils and that Chevron is requiring a 6-ft. separation as a voluntary added protection against future liability to insure that no one conducting typical site activities would come in contact with soils above 1,000 mg/kg. He noted that if development does not go forward, they would re-evaluate the ecological requirements. It was suggested that the technical memorandum discussing petroleum profiles in soils be revised to include the 1,000 mg/kg threshold level. Mike will revised and distribute the technical memorandum by August 18th.

Feasibility Study / Remedial Action Plan

Robert Van Hying reviewed the elements to be addressed in the feasibility study / remedial action plan (FS/RAP). The FS/RAP will focus on remediation strategies to support the proposed site development. It will include a discussion of alternative remediation strategies; however, it will not discuss alternative site uses. The FS/RAP will include removal of on-site buildings and pipelines, which may not be directly related to reducing risk. Potential LNAPL recovery activities will be discussed and formalized. Storm water management will also be addressed in consultation with the California Coastal Commission. The FS/RAP will also include a cliff erosion monitoring strategy and an evaluation of soil vapor extraction strategies based on the soil vapor pilot test.

Robert anticipates providing a draft FS/RAP for ATCAT review and comment in mid to late September. After receiving comments from the ATCAT he will distribute a revised draft in mid to late October. The final draft will be submitted to the appropriate agencies for formal approval; therefore, a formal ratification will be necessary by the ATCAT.

Next Steps/Action Items

The ATCAT participants agreed to the activities and schedule in the attached flow chart. Specific action items are shown in the following table.

| No. | Activity | Date Due | Responsibility |
|-----|---|----------------------|------------------|
| 1 | Prepare a discussion of arsenic and send it to Teri Copeland for review. | August 15 | Chuck Lambert |
| 2 | Distribute a revised petroleum in soils technical memo that includes the 1,000 mg/kg SMA. | August 18 | Mike Rendina |
| 3 | Distribute a final draft human health risk evaluation by the end of August. | August 29 | Chuck Lambert |
| 4 | Submit written comments on the draft RMP | September 5 | ATCAT |
| 5 | Distribute the draft FS/RAP to the ATCAT for review | Mid / Late September | Robert Van Hying |

Upcoming Meeting Dates and Agenda Items

Eco Risk Working Group Conference Call – Monday, September 15, 2008 (10:00 AM – 12:00 PM)

1. Discuss comments on the eco risk evaluation appendix of the RMP.

ATCAT Meeting in SLO – Thursday, October 9, 2008 (9:30 AM – 3:00 PM)

1. Agree on final human health risk evaluation to be included in the RMP.
2. Review and discuss draft RMP comments.
3. Review and discuss the draft FS/RAP.

ATCAT Activities and Schedule

August 12, 2008

| August | September | October | |
|--|--|--|--|
| <div data-bbox="228 449 493 562" style="background-color: #ADD8E6; padding: 5px;">Distribute draft Risk Management Plan to ATCAT</div> <div data-bbox="228 594 493 961" style="background-color: #FFC0CB; padding: 5px;"> <p>ATCAT Meeting (August 12th)</p> <ul style="list-style-type: none"> ✓ Review draft Risk Management Plan ✓ Discuss Human Health Risk Evaluation issues ✓ Discuss Feasibility Study / Remedial Action Plan issues </div> <div data-bbox="228 993 493 1106" style="background-color: #ADD8E6; padding: 5px;">Distribute Final Human Health Risk Evaluation to ATCAT (Aug 29th)</div> | <div data-bbox="531 449 795 562" style="background-color: #FFC0CB; padding: 5px;">Submit comments on draft Risk Management Plan (Sept 5)</div> <div data-bbox="531 594 795 730" style="background-color: #ADD8E6; padding: 5px;">Distribute draft Feasibility Study / Remedial Action Plan to ATCAT (mid/late Sept.)</div> | <div data-bbox="831 449 1096 604" style="background-color: #FFC0CB; padding: 5px;">Submit comments on draft Feasibility Study / Remedial Action Plan (early October)</div> <div data-bbox="831 636 1096 1106" style="background-color: #FFC0CB; padding: 5px;"> <p>ATCAT Meeting / Call (October 9th)</p> <ul style="list-style-type: none"> ✓ Agree on Final Human Health Risk Evaluation to be included in Risk Management Plan ✓ Review draft Risk Management Plan comments (Agree on final, if possible) ✓ Review draft Feasibility Study / Remedial Action Plan </div> | <div data-bbox="1131 449 1396 562" style="background-color: #ADD8E6; padding: 5px;">Distribute Final Risk Management Plan to ATCAT (Mid Oct.)</div> <div data-bbox="1131 594 1396 730" style="background-color: #ADD8E6; padding: 5px;">Distribute revised Feasibility Study / Remedial Action Plan to ATCAT (mid-late Oct)</div> <div data-bbox="1131 762 1396 1106" style="background-color: #FFC0CB; padding: 5px;"> <p>ATCAT Meeting / Call (late Oct.)</p> <ul style="list-style-type: none"> ✓ Ratify final Risk Management Plan ✓ Discuss Revised Feasibility Study / Remedial Action Plan </div> |

Chevron Consultant Team Activities

ATCAT Activities

Avila Tank Farm Collaborative Assessment Team

Draft EHS/APCD Meeting Summary

Date: May 11, 2009

Time: 1:00 PM – 4:00 PM

Location: SLO County EHS Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|----------------|-----------------------|------------------|----------------------|
| Bill Almas | Chevron | Aaron LaBarre | SLO County EHS |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Paul Black | Neptune | Andrew Mutziger | APCD |
| Katie Butler | McDaniel Lambert | Kyle Rutherford | Chevron |
| Becky Countway | McDaniel Lambert | Robert Van Hying | Avocet Environmental |
| Teri Copeland | Neptune & Co. | | |

Purpose of Meeting

The purpose of the meeting was to review and discuss the EHS and APCD comments on the final draft of the Supplemental Human Health Risk Assessment for the Avila Tank Farm Property. Chuck Lambert summarized the written comments from EHS and APCD in PowerPoint slides and used the slides to focus discussion on the topics of concern. Chuck edited the PowerPoint slides during the discussion to clarify issues, document conclusions and identify future action items. An outline of the PowerPoint slides is presented in this meeting summary to document the discussion. Items show in red are conclusions or action items.

APCD Comments

1.How to address additive risk to Avila Beach residents?

- Cumulative risk traditionally evaluated in the EIR
- Qualitative assessment in the uncertainty section and place holder for EIR and Feasibility Study
- Send language to APCD and EH for quick review

2.Involve SLO County Fire Department with respect to elevated subsurface methane concentrations?

- Methane >LEL of concern for enclosed buildings; not a current concern. Potential risks from methane to be addressed in Risk Management Plan. Suggest SLO County Fire Department review RMP.
- Fire Department contact is Rick Swan 805-543-4244

3. How future events such as earthquakes could/should be addressed in the HHRA?

- HHRA evaluates current conditions; catastrophic events outside the scope.
- Clearly state that document is applicable to current conditions and if there are significant site changes due to natural events or development changes the risks may need to be reassessed.

Brief review of proposed actions to address remaining SLO APCD comments

- Take any risk management language out except for target ranges identified by EPA and Prop 65
- Footnote on soil gas depth in summary of health risk table
- Send APCD DRAFT meeting summary of all comments

County EHS Comments

1. Inclusion of remediation/construction worker?

- Remediation and construction activities to follow OSHA and include dust monitoring
 - Discuss why construction scenario was not assessed
 - Discuss OSHA compliance of all remediation/construction personnel
 - Community exposure during actual remediation will still need to be assessed by APCD/EH before remedial action, most likely in the EIR
- RTC and redline strikeout for Tech Memo comments
- Questions on the sHHRA – Call AL/EHS first to set up conference call – Email summary for the record

2. For receptors other than intrusive workers, what depth horizon does the county want to be used in the risk assessment?

- 0-2 feet, or the greater of 0-2 and 0-10 foot depth horizons
- Consistent with 0-10 foot scenario currently used for resident (use of maximum EPC)
- For utility worker use 0-10 foot soil horizon
- For outdoor worker use 0-2 foot soil horizon
- For indoor worker (dust component) use 0-2 foot soil horizon
- Remove current uncertainty section discussion regarding 0-2 ft vs. 0-10 ft
- May need to add an offsite residential receptor with exposure to dust generated from the 0-2 foot soil horizon. The offsite resident was assessed in the 2005 baseline HHRA, but as requested by OEHHA only the 0-10 foot horizon was used for offsite dust exposure. There is also significant particulate monitoring data for the Tank Farm that shows very good air quality. May just need to boost up current discussion in Section 1 (reference 2005 document) of offsite receptor... TC/Neptune will review 2005 baseline HHRA and monitoring data and get back to group on this issue.

3. What is the approach for “additional evaluation” of arsenic where concentrations exceed maximum background of 15 mg/kg?

- Known geologic source of arsenic: Obispo formation (concentrations up to 310 mg/kg; B-76)
- If health risks associated with background arsenic levels are to be evaluated, most appropriately addressed in Uncertainty Section
- Rewrite current background assessment in HHRA
- Rewrite history to emphasize lack of sources etc
- Complete an intensity and bubble plot for arsenic/Overlay on geology
- Complete a correlation between arsenic and other metals (i.e. Fe and/or Cu)
- Review onsite background concentration including any depth profile
- Identify onsite areas that are not impacted
- Completed section sent to Neptune/EH for review

Exposure (Open Space Exposure Area)

- Uncertainty section on arsenic and BaP – BaP map/discussion of slope and BaP hotspot
- Explanation of Area A maximum
 - Sample does not represent a sample point concentrations because/depth profile etc.
 - Geology....
 - Nonstandard backyard scenario
 - Bioavailability
- Explanation of Open Space (mobility.....)
- Get draft copy to EH/TC along with rewrite of background assessment section

4. Need to subdivide Open Space into smaller exposure areas?

- Version 1.1 of HHRA includes cumulative distribution plots for two Open Space COPCs (lead and TPH); highest concentrations in 10 South, which has limited access, suggesting that potential risks in Open Space are overestimated
- County requested spatial plots of arsenic and BaP TEQs
 - Arsenic results: No clustering of
 - 15 mg/kg exceedances
 - BaP results: only “cluster” of exceedances in among samples is on steep slopes in 10 South
- No need to subdivide
- Provide rationale using open space BaP spatial map/slope
- Slope are not buildable – no exposure (see Item 3)

5. Clarification of the “full risk characterization” request for workers potentially also living on the Site?

- The Uncertainty Section of version 1.1 of HHRA includes cumulative risks for residents potentially living in Area M, the residential EA with highest cancer risks and noncancer hazards
- Current analysis is for worst-case (Area M)
- HHRA will require analysis for both Area A and M
- Identical Tables for each Area

6. Clarification regarding risk evaluations using reporting limits [for soil gas nondetects] in the Uncertainty Section

- A new request, not included in previous County EHS comments on the HHRA
- HHRA version 1.1 Uncertainty Section notes that:
 - Neptune & Company data usability identified several soil gas samples with elevated reporting limits, but did not consider this to be a significant issue
 - Risk calculations using reporting limits would be highly uncertain and are unlikely to change the overall risk profile
- TC/Neptune will review existing discussion in the Uncertainty Section and get back to the group

Brief review of proposed actions to address remaining County EHS comments

- Thallium – separate correspondence
- Naphthalene – no oral slope factor
- CSM – Note utility worker not exposed to onsite produce
- Justification for Student-t

ACTION ITEMS

McDaniel Lambert

- 1) RTC and redline strikeout for Tech Memo comments
Questions – Call AL/EHS first – Email for the record
 - Table with consolidated comments/Matrix of three memo’s
 - In conjunction with HHRA redline-strikeout
 - (Due: July mid/late)
- 2) Metals Background Assessment and Uncertainty Section Discussion
 - Send out as soon as updated
 - (Due: June 1st)
- 3) Uncertainty Section Open Space Discussion

Drafted by Strategic Initiatives based on the May 11, 2009 EHS/APCD meeting. Reviewed at the October 20, 2009 Human Health Risk Working Group Meeting and subsequently ratified by email.

- Send out as soon as updated

- (Due June 1st)

4) Thallium Memo (Due: May 18th)

5) APCD RTC (Due: May 18th)

Teri Copeland / Neptune

1. Use of existing monitoring data and baseline HHRA for offsite residential receptor or does EH require a new assessment of offsite residential baseline based on 0-2 foot soil horizon – Is this best left to the EIR and a construction scenario?

- (May 15th)

2. Review Avocet geologic analysis again

- Katie will send to Paul (May 12th)

3. Review existing elevated reporting limits uncertainty section (especially Area D) (Let us know when)

4. Clarify Jim Vandewater's comment on J&E model (May 15th)

Avila Tank Farm Collaborative Assessment Team

EHS/APCD Meeting Summary

Date: October 20, 2009

Time: 9:30 AM – 1:35 PM

Location: Chevron Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|----------------|-----------------------|------------------|----------------------|
| Bill Almas | Chevron | Kurt Fehling* | The Fehling Group |
| Chuck Anders | Strategic Initiatives | Aaron LaBarre | SLO County EHS |
| Paul Black* | Neptune | Chuck Lambert | McDaniel Lambert |
| Doug Bronson* | Neptune | Andrew Mutziger | APCD |
| Katie Butler | McDaniel Lambert | Kyle Rutherford | Chevron |
| Becky Countway | McDaniel Lambert | Robert Van Hying | Avocet Environmental |
| Teri Copeland | Consultant to EHS | | |

* via conference call

Safety Moment – Flu Vaccines

Chuck Lambert recommended getting both the seasonal flu shot vaccine and also the 2009 H1N1 flu vaccine. He noted that the reports circulating on the internet and news media indicating that flu vaccines might cause illness are not valid. There is no greater risk with this year's flu shots than in previous years. Aaron LaBarre noted that the San Luis Obispo County Health Officer was also recommending getting the flu shots this season. He indicated that free flu shots are available through the Health Department and he will circulate a notice to the meeting participants when the next round of vaccines are available.

Review of May 11, 2009 Meeting Summary

Chuck Anders will distribute the draft May 11, 2009 meeting summary for ratification via email.

Discussion of Supplemental Human Health Risk Assessment Revisions

The purpose of the meeting was to review and discuss revisions to the Supplemental Human Health Risk Assessment, version 1.2 (sHHRA) distributed by Chuck Lambert on September 14th and resolve outstanding issues, if any.

Chuck Lambert used the Response to Comments table (version 1.1) as a guide to review the changes in the revised sHHRA. All fifty-nine comments and associated document revisions noted on the table were discussed. The revisions were generally acceptable to the meeting participants with the following clarifications:

Item 13-#6 – Paul Black noted that the discussion in this section should justify that there are enough data to draw appropriate risk conclusions at the site through a Data

Quality Assessment (DQA). If the DQA uses a qualitative approach it would be necessary to include language that anticipates the collection of additional data after remediation, if necessary. This is the approach that was agreed upon for finalizing the sHHRA at this time. Paul will work with Chuck Lambert to draft appropriate language later this week that will be added to the sHHRA.

Item 16 – Paul Black indicated that the overall process for the COPC screening process for metals was fine. He will discuss some minor issues when he submits his final comments.

Items 26 - 29 – No longer applicable since screening methodology has changed.

Item 36 – Change reference from “maintenance worker” to “utility worker.”

Item 38 – Kurt Fehling believes that 2- hexanone has it's own toxicity criteria; therefore, it's not necessary to use a surrogate. Kurt will provide criteria information to Chuck Lambert. This should not change the risk characterization results and therefore a footnote to the toxicity criteria table (Table 3-1) will be adequate.

Item 40 – No longer applicable.

Item 41 – No longer applicable.

Item 43 – Paul Black will provide clarifying language.

Item 46 – Andy Mutziger questioned whether exposure due to construction, in addition to remediation, should be considered in section 7.5, which discusses the risks to downwind residents during remediation. Of particular concern was diesel vehicle emissions and potential inhalation risks to downwind (offsite) receptors. Robert Van Hyning noted that it would be premature to include “vertical” construction information since the details of building type, size and construction are not known. Andy agreed that it was appropriate to address this issue in the EIR phase and requested that a discussion of the possible impacts of building construction be included in the uncertainty section of the RMP. It was noted that the impacts due to building construction would likely be relatively small as compared to site remediation and site-grading.

Item 52 – This SLO County EHS comment requested the evaluation of a downwind residential receptor during a construction scenario. The revised sHHRA addressed this comment by applying the default USEPA approach. The default approach resulted in identifying the potential for unacceptable risk to the downwind residential receptor during a default (reasonable worst case) construction scenario. A reference in the uncertainty section will be made for the need to further evaluate this receptor after more detailed information is known regarding the specific remediation/construction activities planned for the site (consistent with Item 46).

It was agreed that issues identified in APCD's comment letter which are not addressed in the sHHRA will be discussed in the Risk Management Plan (RMP). McDaniel Lambert agreed to include a copy of APCD's comment letter and the Response to Comments table in Attachment 2 (ATCAT Correspondence) of the final sHHRA.

Off-Site Mitigation Alternatives

The concept of off-site mitigation was raised during the discussion of sHHRA revisions. Andy Mutziger explained that off-site mitigation was an alternative in the event that activities at the site would exceed acceptable air quality levels to surrounding receptors. The current mitigation rate is \$16,000 per ton of excess emissions. The APCD would then use the money to fund projects that would result in reduced emissions at other locations in the community.

Andy noted that the APCD is in the process of preparing revisions to the CEQA handbook that would have new thresholds for diesel emissions. He observed that there has been substantial progress in reducing particulate emissions from diesel engines for trucks; however, requirements on-site construction equipment lags behind. He was asked whether use of bio-diesel would result in reduced emissions.

Drafted by Strategic Initiatives based on the October 20, 2009 EHS/APCD meeting. Ratified with minor revisions on January 26, 2010 at the meeting with Chevron, EHS, APCD and RWQCB.

Andy said that he would research the question and inform the meeting participants of the results. Andy indicated that it is likely that the APCD would require some type of on-site mitigation during remediation, (such as, use of new, cleaner construction equipment or special filter) given the probable levels of emissions. These issues will be addressed in the EIS phase of the site development process and should be noted appropriately in the sHHRA and RMP.

Document Approval Process

Kyle Rutherford raised questions regarding the mechanism for approval of sHHRA, RMP, Feasibility Study (FS), Remedial Action Plan (RAP) and closure/post-closure plan. He observed that the Regional Water Quality Control Board (RWQCB) typically is the approving agency for clean-up documents like the FS and RAP. Aaron LaBarre noted that EHS was responsible for issuing permits for occupancy of public projects. Aaron anticipates a multi-jurisdictional closure process that includes joint approval by EHS, APCD and RWQCB. Aaron will coordinate with these agencies to discuss how documents will be reviewed and approved and provide this information to Chevron within a week. It was agreed that the approval process should be clearly presented in the RMP.

Path Forward

Teri Copeland will discuss timing to complete their review of the Response to Comments with her team and provide a date for completion. Once final comments are received, Chuck Lambert will make necessary revisions and distribute a final redline only electronic text version of the sHHRA (including any tables that have changed) for final approval. EHS will then receive a hard copy of the final sHHRA and transmit an approval letter to Chevron.

Teri Copeland will also prepare a table that includes proposed area-specific acceptable risk levels to be included in the RMP. Her approach will follow USEPA risk characterization/risk management guidance. She will prepare for a few key areas (as examples) and distribute to the County EHS for preliminary review. Aaron LaBarre will arrange a meeting with Curt Batson and Teri Copeland to discuss the USEPA approach of area-specific acceptable risk levels versus a site-wide bright line threshold before final agency decisions are made regarding acceptable risk levels. The identification of acceptable risk levels by the risk managers (agencies) is a rate-limiting step for Chevron in terms of setting cleanup goals for the site.

The meeting participants agreed to make their best efforts to finalize and approve the sHHRA before Thanksgiving. The draft RMP would be distributed around the end of the year and the full ATCAT would meet to discuss the draft RMP around the end of January.

Avila Tank Farm Collaborative Assessment Team

Chevron/EHS/APCD/RWQCB Meeting Summary

Date: January 26, 2010

Time: 10:00 AM – 2:00 PM

Location: Chevron Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------|------------------------------|------------------|----------------------|
| Bill Almas | Chevron | Andrew Mutziger | APCD |
| Chuck Anders | Strategic Initiatives | Dan Niles* | RWQCB |
| Teri Copeland* | Consultant to SLO County EHS | Debbie Rudd | RRM Design |
| Jennifer Holder | Geosyntec | Kyle Rutherford | Chevron |
| Aaron LaBarre | SLO County EHS | Robert Van Hying | Avocet Environmental |
| Chuck Lambert | McDaniel Lambert | | |

* via conference call

Safety Moment – Changing a Flat Tire

Bill Almas shared an experience where he had a flat tire on a trip to Brea, CA. He pulled out of traffic, reviewed the procedures for changing a tire in the vehicle manual (which included placing a chock behind the tire) and proceeded to change the tire without incident. Subsequently, he was informed that Chevron's recommended procedure to repair a flat tire was to call for road service. Bill and other meeting participants agreed that having the tire changed by a road service professional was the safest way to repair a flat tire.

Ratify October 20, 2009 Meeting Summary

Chuck Anders reviewed the draft meeting summary from the October 20, 2009 meeting with Chevron, EHS and APCD. The meeting participants ratified the draft with minor corrections.

Supplemental Human Health Risk Assessment

Aaron LaBarre indicated that the revised redline draft of the Supplemental Human Health Risk Assessment (sHHRA) distributed by Chuck Lambert on January 5, 2010 was substantially complete and characterizes the human health risks at the site based on the current data. He reviewed a January 16, 2010 memorandum from Teri Copeland, which indicated that the requested clarifications from the previous draft were incorporated and adequate. Teri also requested some minor edits, such as, adding references and updating footnotes.

Chuck Lambert will prepare ten hard copies and a CD of the final document for distribution by February 2, 2010. (Chevron – 2 copies, EHS – 2 copies, APCD – 1 copy, RWQCB – 1 copy, other participants will receive a CD.) Chuck Anders will check with the California Department of Fish and Game and the SLO County Planning Department to determine if they require a hard copy or a CD.

Drafted by Strategic Initiatives based on the January 26, 2010 meeting with Chevron, EHS, APCD AND RWQCB. Reviewed and ratified at the August 30, 2011 ATCAT Meeting.

Aaron indicated that EHS would distribute a multi-agency (EHS, APCD, RWQCB) approval letter within one week of receipt of the final document.

Andy Mutziger asked if the sHHRA would be revised if additional contamination were discovered during remediation. Chuck Lambert indicated that the sHHRA is a “snapshot in time” and any additional issues would be addressed through supplemental memoranda.

Environmental Document Process Diagram

Before discussing the Agency agenda items, Bill Almas distributed an environmental document process diagram (attached) that illustrates the steps that Chevron envisions will be necessary to complete the remediation/development project. Robert Van Hyning discussed the diagram and noted that Chevron anticipates that it will take 2 ½ years to work through the project application and remediation process, which will include San Luis Obispo County and California Coastal Commission (CCC) review and approval of CEQA documents.

Bill Almas indicated that it is likely that portions of the property would change ownership and that institutional controls, such as deed restrictions, will be used to assure remediation requirements are adhered to. The feasibility study (FS) and remedial action plan (RAP) will identify items that require instructional controls.

Agency Questions and Issues (Agency Agenda)

Aaron LaBarre coordinated review of the sHHRA with Andy Mutziger, Dan Niles and Teri Copeland. During their discussions they identified a number of questions/issues that they wanted to discuss with Chevron. Those questions/issues are presented in the attached agenda and discussed below.

Prior to discussion of specific agenda items, Teri Copeland noted that they had reviewed EPA guidance, which establishes a 10^{-6} point of departure for planning purposes. Higher risks might be considered based on site-specific factors. Teri suggested that it might make determination of acceptable risks easier if they had a better idea of what mitigation measures were intended to be implemented. She also noted that there were still some uncertainties regarding the level of data necessary to base risk conclusions.

Aaron LaBarre noted that it was consistent with EHS process to have the starting point for commercial uses different than residential, i.e., 10^{-5} .

➤ VOC Inhalation Pathway for Down Wind Resident

- Risk manager’s January 14, 2010 comments to update Table ES-1 Uncertainty section
- Discussion of post-remedial risk analysis, to confirm contaminants are below level of concern

Aaron LaBarre indicated that EHS would require a closure document verifying that all risk related objectives had been met. He discussed the possibility of a post-remedial risk assessment to confirm that risks were below target levels. Kyle Rutherford observed that a typical closure document verifies that contaminant levels have been cleaned-up to the agreed upon target levels and that no further risk analysis is conducted unless additional contamination is discovered during remediation. He noted that verification sampling protocols to be conducted during remediation will be specified in the RAP and will be well documented. Chevron representatives indicated that this issue would require further discussion and requested that Aaron and Teri provide examples of closure documents that incorporate a post-remediation risk assessment.

➤ **Status of Plans for Vapor Barriers**

- Will they be installed for all future buildings?
- Product effectiveness – e.g., membrane specifications (installation thickness, etc.)
- Monitoring/documentation for ongoing effectiveness (long-term mitigation)

Kyle Rutherford indicated that Chevron takes the conservative approach and will typically require vapor barriers for any structure where there is a potential exposure from soil gas. Since Chevron will not likely construct the buildings themselves, they will establish minimum design criteria that the design engineer must meet; however, they will not specify the type of design that must be used. Chevron will also likely require indoor air sampling prior to occupancy. Robert Van Hying noted that Los Angeles County has established ordinances for building over soil vapor sites.

➤ **Refinement of Risk Characterization of Other Pathways**

- Will some risk refinement and/or additional sampling be conducted before remediation?
- Potential additional sampling needed to accurately delineate areas/soil warranting remedial action (e.g., excavation limits)

Kyle Rutherford noted that Chevron is collecting additional samples in the area of the cliff seeps at the request of RWQCB. These data will not impact the sHHRA; however, they will be useful in preparation of the RMP. Chevron does not anticipate collecting any additional sampling prior to completing the RAP. The RAP may contain procedures for collection of additional samples to better delineation existing areas of concern prior to or during remediation.

➤ **Soil Remediation**

- Areas driven by ecological risk.
- Chevron goal of removing TPH Impacted Soils (concentrations greater than 1,000 mg/kg)
- Delineation of areas identified for soil removal.
- Post remediation confirmatory sampling
- Impact of these remediation actions on reducing baseline HHRA risks



Jennifer Holder observed that almost all eco-driven risks are taken care of by human health risk driven remediation and that the eco risk assessment assumes that contaminated soils within development bubbles will be disturbed and remediated. She does not anticipate any eco-driven remediation that would reduce human health risks with the possible exception of soil management areas (areas of >1,000 mg/kg non-asphaltic TPH in upper 6-feet of soil). Robert Van Hying noted that there is a relatively high level of accuracy in delineating soil management areas and that the 6-feet of clean soil could be accomplished by filling to design grade instead of removal.

➤ **Agency Involvement in:**

- Feasibility Study
- Remedial Action Planning
- Defining Mitigation for selected Remedial Action
- Confirmatory Sampling and Post-Remediation HHRA Methods

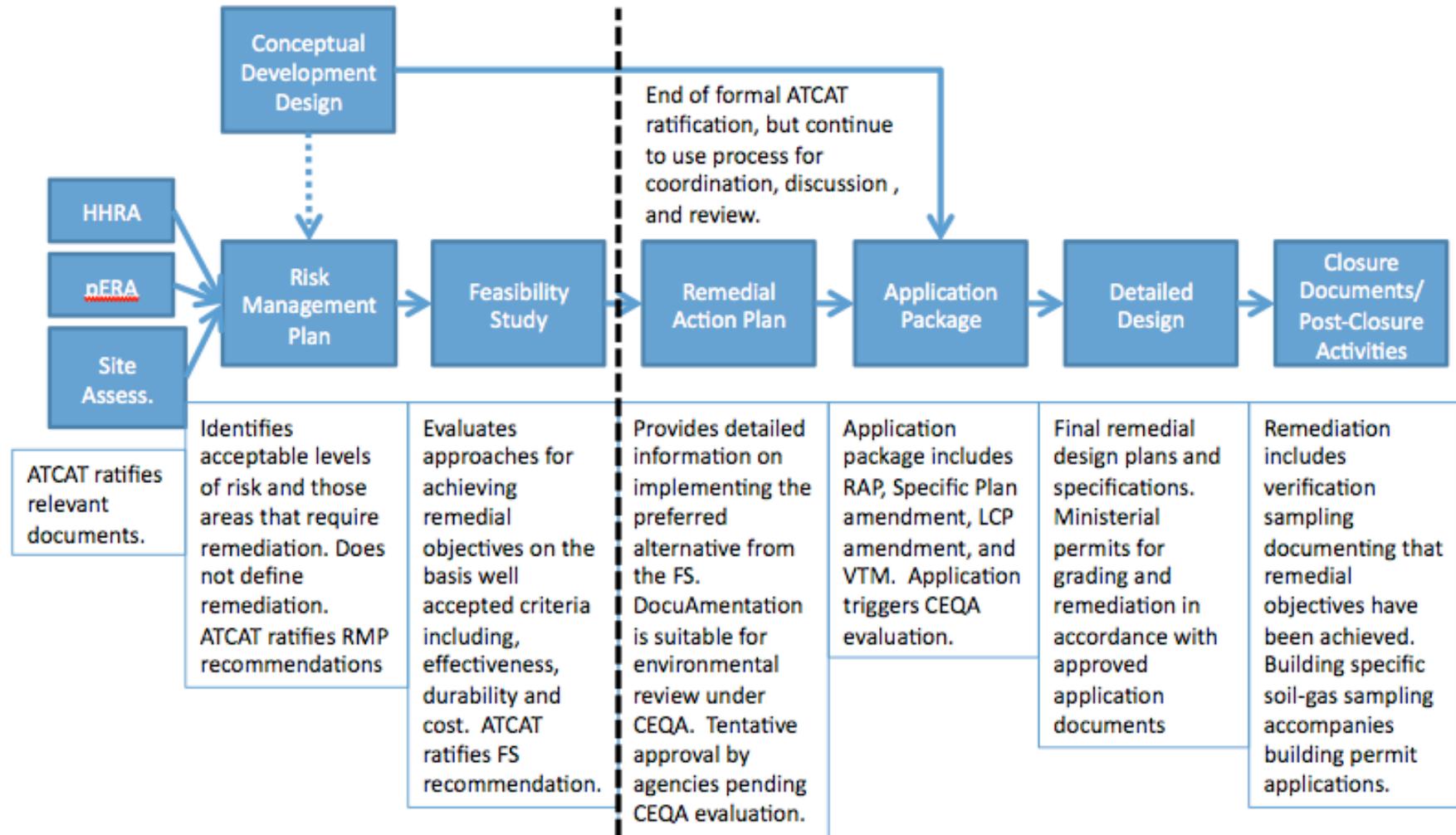
Drafted by Strategic Initiatives based on the January 26, 2010 meeting with Chevron, EHS, APCD AND RWQCB. Reviewed and ratified at the August 30, 2011 ATCAT Meeting.

The lead agency roles will vary depending on the stage of the project; however, it is anticipated that all agencies will be involved in some way. Chevron will discuss the agency's comments and concerns internally and prepare a proposal to move forward within two weeks.

Action Items

1. Chuck Lambert will distribute the final sHHRA by February 2, 2010. Chuck Anders will contact County Planning and the Department of Fish and Game to determine the number of hard copies and/or CDs they require.
2. Aaron LaBarre will distribute a joint-agency approval letter for the sHHRA within one week of receipt of the final document.
3. Aaron LaBarre and Teri Copeland will provide examples of closure documents that incorporate a post-remediation risk assessment.
4. Chevron will prepare a proposal to move forward by February 9, 2010.

Environmental Document Process



Comment from Andy Mutziger, APCD - amended description of RAP to include:

- a. Note that the RAP will define a detailed best chosen remedial action plan to meet the needs of the proposed development scenario;
- b. Identify that post remedial action deemed necessary to demonstrate that the identified human health and eco risks will be effectively mitigated by the remedial action; and
- c. Identify the need for agency defined deed restrictions as part of the property ownership change.

Avila Tank Farm sHHRA
Risk Management Meeting with Chevron
Agenda

I. Meeting Objectives

- Advance information regarding risk management steps that may influence agency determination of acceptable risk for sHHRA

II. VOC Inhalation Pathway for down wind resident

- Risk manager's January 14, 2010 comments to update Table ES-1 Uncertainty section
- Discussion of post-remedial risk analysis, to confirm contaminants are below level of concern

III. Status of Plans for Vapor Barriers

- Will they be installed for all future buildings?
- Product effectiveness – e.g., membrane specifications (installation thickness, etc.)
- Monitoring/documentation for ongoing effectiveness (long-term mitigation)

IV. Refinement of Risk Characterization for Other Pathways

- Will some risk refinement and/or additional sampling be conducted before remediation?
- Potential additional sampling needed to accurately delineate areas/soil warranting remedial action (e.g., excavation limits)

V. Soil Remediation:

- Areas driven by ecological risk.
- Chevron goal of removing TPH Impacted Soils (concentrations greater than 1,000 mg/kg)
- Delineation of areas identified for soil removal.
- Post remediation confirmatory sampling
- Impact of these remediation actions on reducing baseline HHRA risks

VI. Agency Involvement in:

- Feasibility Study
- Remedial Action Planning
- Defining Mitigation for selected Remedial Action
- Confirmatory Sampling and Post-Remediation HHRA Methods

VII Content of multi Agency Approval document.

Avila Tank Farm Collaborative Assessment Team

Meeting Summary

Review of Draft Data Quality Assessment

Date: October 25, 2010

Time: 9:00 AM – 11:30 AM

Location: Chevron Offices, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|---------------|-------------------------|------------------|----------------------------|
| Bill Almas | Chevron | Jennifer Holder | Geosyntec |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs | CDFG | Andrew Mutziger | APCD |
| Katie Butler | McDaniel Lambert | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Aaron LaBarre | SLO County Dept. of Health |
| Teri Copeland | Consulting Toxicologist | Robert Van Hying | Avocet Environmental |

Safety Moment

Louis Cappel shared an observation from recent fieldwork at an unrelated work site. He noted that the workers at this particular site were not familiar with the operation and testing of their personal safety monitoring equipment. He emphasized the importance that all field personnel have appropriate field monitoring equipment and be fully knowledgeable of its operation and testing.

Review of Data Quality Assessment Results

Chuck Lambert introduced Katie Butler who authored the Data Quality Assessment (DQA). Katie explained that they used the classical EPA methodology to assess whether enough samples had been collected to determine if the human health risk levels computed in the supplemental Human Health Risk Assessment (sHHRA) can be statistically substantiated in terms of sample adequacy. A qualitative approach had been used in past versions of the document.

Katie noted that when the DQA calculations indicate that more samples are needed for risk significant chemicals (RSCs), it means either 1) more samples are needed, or 2) the exposure area is a candidate for remediation. She noted that the number of samples required is dependant on the risk levels being tested (the more stringent the risk level, the more samples are required). The DQA screens each chemical individually and does not assess cumulative risks of multiple chemicals. Paul Black emphasized that it was necessary to do one chemical at a time.

Katie noted that for soil gas many areas would require over 10,000 samples when the most stringent DQA criteria were applied. The large sample number in these cases was driven by variability between samples at 5 ft and 15 ft (the DQA combined the 5 ft and 15 ft datasets). Chuck Lambert noted that Area M was driven by isolated high benzene samples near the pipeline in the corner of the area and that the majority of Area M was clean.

Chuck Lambert concluded that there were no surprises resulting from the DQA. Paul Black added that the assessment will be very useful to validate the areas that pass the test. The areas fall into the following categories:

- DQA shows no additional sampling is necessary for proposed uses
 - The level of confidence in risk management decisions (no further action vs. action) is acceptable.
- DQA shows additional sampling is necessary for proposed uses
 - Additional data collection will be needed, or
 - Remedial action will be implemented
- For areas where further action is planned
 - data adequacy will need to be addressed following validation of the post remediation sampling data.

Melissa Boggs asked if the conclusions from DQA could be used in the ecological assessment. Jennifer Holder indicated that they were not applicable since the ecological assessment was based on individual sample results in areas outside of the development bubbles.

Paul Black noted that the agencies should be sure that they understand and are satisfied with the allowable Type I and Type II error rates (alpha and beta) used in the DQA. Because the DQA was conducted retrospectively, a range of error rates (5% - 15% for alpha and 15% - 25% for beta) was presented. Paul observed that the typical default values are 5% for alpha and 20% for beta. Paul will review the document and run some additional numbers to better understand the implications of the alpha and beta ranges and conclusions. Teri and Paul will meet with the agencies to make sure that they are comfortable with implications of the DQA. Aaron LaBarre will then provide comments to Chuck Lambert.

Because the number of samples required is dependent on the acceptable level of risk being evaluated (e.g., 10^{-5} or 10^{-6}), it is important that the agencies are comfortable with the target risk levels. Teri will work with the agencies to review the risk levels and document the decisions. She noted that typically the default level for commercial areas is 10^{-5} and the default level for residential areas is 10^{-6} . See discussion below on land use and risk levels.

Aaron asked Paul if the sections under performance and acceptance answered all his questions. Paul said that it's enough for him; however, some expanded discussion in Section 2.2.4 would be helpful for someone not expert in statistics.

Paul indicated that he would be available for the next two weeks and that he will be traveling after that. Aaron will coordinate the agency review schedule and send it to Chevron. After Chuck Lambert receives comments from the agencies on the draft DQA, they will prepare a final revised draft. Aaron indicated that a red-line strike-out edit would be useful for the next revision and that it would also be helpful to have a final tech memo for the completed document. Once the County is satisfied with the revised draft, they will issue a formal approval letter.

The question of risk levels for sensitive receptors (i.e., children) was discussed. It was agreed that EHS would clarify their comment on the RMP which stated that, for planning purposes, a 10^{-6} risk level should be targeted for all land use areas where there would be sensitive receptors since this would include recreational use areas. Aaron stated he will provide a memo to address the question and clarify what the Agency position..

Finalization of sHHRA

It was agreed that the DQA would be added to the sHHRA when finalized with short summary in section 2.0. Chemical toxicity values will be updated (especially BaP), and the updated database for soil will be used.

Chuck Lambert will distribute an updated sHHRA (red-lined version) with draft text referencing the DQA by November 19th or earlier. Agencies will provide comments to Chuck Lambert within two weeks. Chuck will distribute the final sHHRA before Christmas.

Risks to Offsite Residents

APCD's concern about risks to off-site residents was discussed. Chuck Lambert noted that the off-site risk from benzene and ethyl benzene in soil associated particulates is estimated in the sHHRA to be 2×10^{-6} . This level is based solely on VOC inhalation and uses soil data in the 1-10 ft. depth horizon. He observed that there is little benzene or ethyl benzene in the 0-2 ft. depth horizon and that the offsite resident risk based on the 0-2 ft soil data is more realistic and well below 10^{-6} . Andy Mutziger agreed that using the 0-2 ft. depth horizon in the HHRA was more realistic. Teri Copeland concurred.

Chuck Lambert reviewed the SOMA report prepared as part of the 1999-2000 Project Avila remediation. The health risk was based on exposure to diesel emissions. No air target levels were exceeded during the remediation (monitoring usually within 200 ft of construction activity). The risk assessment calculated cancer risks of 9×10^{-6} for a child and 4×10^{-6} for an adult, which both assumed regular exposure for 14 months. Chuck noted that these historic risk estimates are not consistent with a recent OEHHA (Technical Support Document for Cancer Potency Factors, May 2009) document that identifies that human health cancer risks should not be computed unless the exposure is longer than 2 years. He also noted that the last paragraph of the SOMA document identifies that the calculated cancer risk is biased to an overestimation. Chuck noted that it would have been more appropriate for the SOMA report to have used the chronic noncancer REL, which demonstrated calculated health hazard indices below 1 for both child and adult receptors.

He noted that based on pending OEHHA changes to their guidance on performing health risk assessments, it may not be appropriate to combine Avila Tank Farm cancer risks with the SOMA calculations.

(APCD/EHS Post Meeting Clarification: The OEHHA Technical Support Document for Cancer Potency Factors (May 2009) that Chuck provided the APCD is not the final OEHHA guidance on this issue. Our staff recently attended meetings with OEHHA and asked when the final guidance was going to be issued. The OEHHA staff said that the guidance document is in review but did not specify a time when the document will be released.)

Bill Almas suggested that the APCD clarify this misperception with the residents of Avila Beach. Andy recommended that this issue be clarified during the construction phase of the remediation activities.

APCD/EHS Post Meeting Clarification: After further discussion on this item with APCD management, APCD proposes the following approach to handle this issue:

The SOMA report was the HHRA for the Avila Beach remediation activities in the late 90s. The County Public Health and SLO County APCD were co-lead agents on the Avila Beach Big Dig.

For the future site remediation that Chevron will propose, the County Planning Department will likely be the lead agency. As lead, County Planning will likely conditionally authorize the this remediation request after the request has undergone environmental review.

During that environmental review process, the APCD and County Environmental Health (a division of County Public Health) plan to submit comments to County Planning regarding project impacts and pertinent mitigation.

In addition, APCD & EH plan to provide commentary on the SOMA HHRA relative to the proposed remediation project and the pending OEHHA guidance on short term health risk assessments.

Note: In defining applicable mitigation, the APCD & EH reserve the right to apply more stringent mitigation of diesel impacts than typical protocol to minimize cumulative impacts to the community of Avila Beach.

As lead agency for the remediation, the County will be responsible for reviewing all comments received on the proposed remediation and specifying appropriate mitigation.

APCD and EH request discussion on this item the next meeting of the HHRA team.

Avila Tank Farm Collaborative Assessment Team

Ratified Meeting Summary

Date: August 30, 2011

Time: 9:00 AM – 2:00 PM

Location: RRM Design, 3765 South Higuera St., Suite 102, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|------------------|----------------------------|
| Bill Almas | Chevron | Andrew Mutziger | APCD |
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Melissa Boggs | CDFG | Aaron LaBarre | SLO County Dept. of Health |
| Louis Cappel | Padre Associates | Debbie Rudd | RRM Design Group |
| Teri Copeland | Consulting Toxicologist | Kyle Rutherford | Chevron |
| Regina Donohoe | CDFG | Kim Tulledge | Chevron |
| Jennifer Holder | ERM | Robert Van Hying | Avocet Environmental |
| Ryan Hostetter | SLO County Planning & Bldg. | George Webber | ERM |
| Chuck Lambert | McDaniel Lambert | Rik Williams | Chevron |
| Steve McMasters | SLO County Planning & Bldg. | | |

Safety Moment

Kyle Rutherford offered a safety moment. He emphasized the importance of monitoring your level of heat stress during hot periods. He distributed information on heat illness, which included a checklist of items to consider before beginning work on hot days.

Ratify Previous Meeting Summaries

The previous meeting summaries from January 26, 2010, July 26, 2010, and October 25, 2010, were briefly reviewed and ratified. Chuck Anders noted that general comments on the meeting summaries offered by ATCAT participants will be included in the summaries to provide context for the meetings. It was agreed that if anyone had additional comments or changes in the summaries, they would be addressed at the next ATCAT meeting.

Site Development Plan Update

Bill Almas reviewed the status of the redevelopment process for the Avila Tank Farm. He indicated that a presentation will be made internally in September as part of the Chevron Project Development and Execution Process (CPDEP). Based on the internal review, a recommendation to management will be made regarding the preferred a project alternative. The scenarios under consideration include the proposed redevelopment plan (visitor serving/small residential) and the “no development” scenario (baseline condition). The baseline condition may include the removal of pipelines and equipment, stabilization and/or removal of contaminants and any other work necessary to meet regulatory requirements for the no development alternative.

Bill and Kyle Rutherford noted that there were numerous activities at the site over the past year:

- Additional investigation regarding the Cliffs Springs area is underway. Kyle explained that Chevron is installing five additional monitoring wells in the vicinity of the cliff springs to better understand the movement of contaminants in the area. The data are not all complete and it will take additional time to fully understand the results.
- Four monitoring wells with higher levels of LNPL were studied to assess the ability to recover free product and determine its mobility. Chevron is currently completing the data collection phase and will have more information in late September/early October.
- Chevron completed a landslide assessment and further wetlands delineation on the property.

Bill Almas reviewed why Chevron believes it's important to do a Risk Management Plan (RMP). He noted that the RMP is a preliminary approach to address site issues and without the RMP it will likely be necessary to revise the feasibility study multiple times. The RMP also worked well on the SLO tank farm project. Robert Van Hying observed that the RMP is essentially the first five or six chapters of the feasibility study. The participants agreed that it would be useful to prepare the RMP.

Review Preliminary Agency Determination

Aaron LaBarre discussed the potential content of a forthcoming letter of determination, which he envisions to be a joint letter from EH, APCD and RWQCB. The letter is intended to identify those issues that the three agencies need to address based on the proposed land use as currently defined. He noted that the Agencies consider the Human Health Risk Assessment complete as a basis to make risk decisions at this point in time.

Aaron reviewed the current thinking from a regulatory perspective from Environmental Health Services on potential human health risks considering necessary future actions and requirements based on the proposed land-use. He noted that the following presentation was preliminary and the final letter may change during final review by the three Agencies:

Area B – no further actions

Area C – no further actions

Area D – further actions (Exceeds CHHSL for lead)

Area E – further actions (Exceeds CHHSL for lead and risk due to soil gas)

Area F – further actions (Exceeds risk due to soil gas)

Area G – no further actions

Area H – no further actions; however, additional PAH characterization may be necessary if proposed land use changes.

Area Ia – further action - (Exceeds CHHSL for lead)

Area Ib – further action - (Exceeds risk due to soil gas)

Area J – further actions (Exceeds risk due to soil gas and soil)

Area K – further actions (Exceeds risk due to soil gas).

Area L – further actions (Exceeds CHHSL for lead)

Area M— further actions to address soil gas (may be addressed with more samples)

Area N – further actions to address soil gas

Open space – no further action.

Native gardens – no further action

Site Wide – further action - apply 10^{-6} for PAHs based on recreational user, including child.

Area A – further action to address soil gas and potential risk due to arsenic and a residential receptor. EH is also concerned about elevated levels of arsenic in soil.

Aaron noted that further action for soil gas could be addressed by collecting more samples or installing vapor barriers in areas where soil gas is a concern. He also noted that they are concerned about vapor migration.

Bill Almas indicated that it was a significant issue for Chevron to remediate background levels of arsenic.

Aaron indicated: that the Agency was not asking anyone to remediate background levels; however, they are concerned about the health effects of elevated levels of arsenic and would provide a determination on risk to a potential receptor (resident child in the case of Area A) and would answer if a proposed land use is acceptable and that they need to be consistent with what Cal EPA has done in the county. At this point the preliminary determination is based on a sample with a detection of 57 ppm. DTSC has set an acceptable limit for another residential project in the County at approximately 7 ppm. DTSC has stated concentrations around 12 ppm are generally acceptable. It is possible further analysis may show (as the sample density is low) by running a 95% UCL that the concentration for the entire area may be within acceptable limits.

It was noted that the letter of determination is based solely on health risk and does not address leachability or other regulatory requirements. Aaron anticipates issuing the letter by the end on September.

Environmental Document Process

Robert Van Hying reviewed the proposed environmental development process. He noted that the approach is modeled on the National Contingency Plan and is essentially a voluntary CERCLA process as presented in Figure 1.

Regina Donohoe noted that the ATCAT process was dependant on the conceptual development design. She emphasized the importance of having as complete as a conceptual design as possible. Robert indicated that it is likely that the conceptual design will have some changes as we go through the process, especially if there is more open space added. Kyle Rutherford added that we need to be prepared if the proposed development plan reverts to open space during the review process.

Melissa Boggs asked when Chevron intended to involve the California Coastal Commission (CCC) in the ATCAT process. Robert indicated that Chevron plans to have Debbie Rudd contact them during the next few months; however, they typically do not respond until a project application is submitted. Ryan Hostetter noted that the County does it's best to work with the CCC during the application process. Steve McMasters added that it is the County's goals to work with the CCC during the alternative process and the EIR. It was agreed that County Planning would contact the CCC staff and inform them of the potential project under development and identify a CCC staff person to receive further ATCAT information.

Aaron LaBarre noted that he prefers a combined Agency approval of the Remedial Action Plan (RAP); however, it could be separate. Robert indicated that it is likely that the County will be the lead for the CEQA process.

Robert Van Hying indicated that he anticipated the application process package to be complete by the end of 2012 or more likely 2013.

Chevron will meet with County Planning regarding the application process within the next 30 – 45 days. They will also meet with County Planning regarding the proposed development plan within 30 days after CPDEP approval.

Risk Management Plan

Jennifer Holder noted that the purpose of her presentation was to confirm the utility of completing a RMP and review the comments on the previous version 1.1 in order to identify a path forward to complete the document.

She noted that the objectives of the RMP are to provide recommendations for the management of unacceptable risks to the ecology and human health. The RMP is based on anticipated future uses, which includes a significant visitor-serving component. The FS will define the best remedial action to address the issues identified in the RMP.

Jennifer reviewed the historical timeline of the RMP. Version 1.0 was submitted to the ATCAT for review in August 2008. Version 1.1 was submitted to the ATCAT in July 2010 at which time County Health requested a Data Quality Assessment (DQA) be completed. Resolution of other comments was put on hold until the DQA was finalized. The DQA and revised sHHRA were approved in the summer of 2011.

Jennifer reviewed the significant comments received on the draft RMP version 1.1

Utility of RMP

She noted that County Health questioned the value of the RMP. Jennifer observed that the RMP allows the integration of all issues. Kyle Rutherford indicated that the RMP defines the remedial objectives or targets for the site. Robert Van Hying observed that the RMP was essentially the first five to six chapters of the FS. Dan Niles agreed that it would be helpful to see the RMP as a screening tool for the FS. He further observed that it would be useful to integrate the regulatory goals and requirements into the RMP.

With regard to Chevron's intention to move forward with the project, Bill Almas emphasized that Chevron intends to vigorously begin the application process once the project is approved internally. He noted that Chevron needs to know the implications of an area not being developed and remaining open space and would like to see it included as an alternative in the RMP. Steve McMasters agreed that this information would be useful during the CEQA alternatives analysis and recommended retaining the ATCAT as a resource.

Aaron LaBarre agreed that the RMP would be useful. He noted that we might want to change the name to FS scoping document because RMP is a term used in another context. Rik Williams suggested calling the document an "Uncertainty Management Plan." The ATCAT agreed that the RMP was a useful document and will leave the name of the document an open question for the time being.

Transparency

Regina Donohoe raised the question of the ease of understanding or transparency of the RMP. Jennifer agreed and indicated that the document would be revised to be more transparent and easier to understand.

Baseline Conditions

Potential ecological risks were identified for the "baseline" condition (assumes no development) in the Appendix. However, no risk management recommendations were provided for the "baseline" condition. Regina noted the importance of clearly defining the baseline risk and suggested moving it from the Appendix to the main text of the document.

Jennifer noted that risk management recommendations were only made for potential risks for areas outside the development bubbles. For the sake of completeness, Chevron believes that there should be risk management recommendations for "baseline", so if development areas get modified there are recommendations to guide the FS. Therefore, version 1.2 will include baseline recommendations.

Cumulative Risk

Jennifer noted that County Health requested that recommendations be based on cumulative health risks. She observed that because of the very different remedial approaches for soil contact and indoor air, the presentation of the risk “subcomponents” is absolutely essential information for the RMP and risk managers; however, the approach will be revised to specify that the initial comparisons for identifying unacceptable risk will be based on the cumulative risk result.

Risk Targets

It was agreed that the determination letter currently being finalized would supersede County Health’s previous comments on risk targets.

Methane as an Asphyxiant

CDFG raised concern regarding methane as an asphyxiant to burrowing animals since methane and other gases can become asphyxiants when they replace the oxygen in air. Jennifer noted that current soil vapor data does not indicate a broad relationship between methane and O₂ levels across the site; however, the exception is around the pump house and truck rack where high methane and other gases are co-located with low O₂. She has discussed this issue with Regina and agrees that the baseline condition for the area around the pump house and loading rack needs to be defined. This issue will be considered as baseline is evaluated and will require further discussion.

Soil Leaching

The Regional Water Quality Control Board (RWQCB) requested that soil leaching to groundwater be assessed for all constituents of concern (COC). They noted that evaluation of the leaching potential is needed to determine the most conservative cleanup driver for COC (i.e., human health risk, versus ecological risk, versus leaching to groundwater risk).

Jennifer noted that a white paper is being developed that is synthesizing new and historic data to describe the conceptual site model and the significance of leachability will be discussed in this document. This white paper will be presented to the RWQCB for concurrence on the interpretation and will help to inform this issue in the RMP.

Groundwater as a Transport Mechanism

The RWQCB requested that reference to previous work approved by the regulatory agencies showing that groundwater is not a significant transport mechanism for site contaminants, and is therefore an unlikely exposure route for human or ecological receptors, be deleted. The RWQCB also noted that this statement needs further evaluation given the cliff erosion estimate and LNAPLs on groundwater and that it is too early to make this statement until pollutant mass reduction is implemented and achieved. Jennifer commented that the conceptual site model white paper will evaluate these issues and will help to inform this issue in the RMP.

Cleanup Requirements

RWQCB noted that use of applicable Environmental Screening Levels (ESLs) must be incorporated into the FS for reference relative to proposed remedial alternatives for all soil COCs and groundwater. Robert Van Hyning noted that these requirements are included in the “Applicable or Relevant and Appropriate Requirements” (ARARs) for the site and will guide the development of the FS.

Soil Vapor Barriers

The RWQCB questioned whether there will be soil vapor barriers to eliminate soil vapor gas risk for contemplated exposure scenarios? Robert Van Hyning noted that, at a

minimum, vapor barriers will be installed beneath the floors of enclosed structures. In addition, some structures may have raised foundations depending upon site conditions. These issues will be discussed in detail in the FS.

Cumulative Risk

The Air Pollution Control District (APCD) emphasized the importance of minimizing the cumulative risk due to future diesel emissions to the community of Avila Beach. Because historic risk values are significant, an APCD goal, as an ATCAT member, is to ensure that additional risk from future diesel activities in the Avila Beach area are managed to the fullest extent possible. Additional risk from future diesel activities in and around Avila Beach needs to be adequately computed in documents regarding future Avila Tank Farm activities and evaluated in context to the historic risk.

It was agreed that these issues would best be addressed in the FS and RAP; however, we will keep cumulative risks due to diesel emissions in mind throughout the evaluation process. Dan Niles noted Governor Brown's comments addressing risks and minimizing net environmental impacts (Net Environmental Benefit).

It was suggested that the historic cumulative exposure calculations be reviewed using the methodology to see if they would change. Andy Mutziger will talk with Larry Allen about updating the Project Avila 2000 risk assessment using current methodologies.

Kyle Rutherford indicated that Chevron was in the process of defining the baseline case (description of site conditions after voluntary Chevron activities assuming no development or required regulatory actions), which will be the basis for the CSM. Chevron will define the "baseline" case by the end of September and complete the CSM by the next ATCAT meeting on October 20, 2011.

Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date. She will also prepare a Response to Comments to the draft Risk Management Plan (RMP) ver 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter.

Feasibility Study

The discussion of the FS was deferred until after the RMP is revised.

Next Steps Action Items

The following action items resulted from the meeting:

- 1) Chevron will obtain internal approval (through the CPDEP - Chevron Project Development and Execution Process) of the preferred site development plan by the end of October.
- 2) Chevron will meet with County Planning regarding the application process by the middle of October.
- 3) Chevron will meet with County Planning regarding the preferred site development plan no later than 30 days after CPDEP approval.
- 4) Aaron LaBarre, in cooperation with Andy Mutziger and Dan Niles, will issue a letter of preliminary Agency determination by the end of September.
- 5) County Planning will contact the California Coastal Commission (CCC) staff and inform them of the potential project under development and identify a CCC staff person to receive further ATCAT information.
- 6) Andy Mutziger will talk with Larry Allen about updating the Project Avila 2000 risk

assessment using current methodologies.

- 7) Chevron will define the "baseline" case (description of site conditions after voluntary Chevron activities assuming no development or required regulatory actions) by the end of September.
- 8) Chevron will develop a Conceptual Site Model by October 20th.
- 9) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date.
- 10)** Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter.

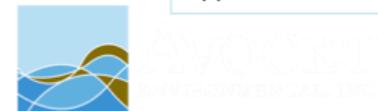
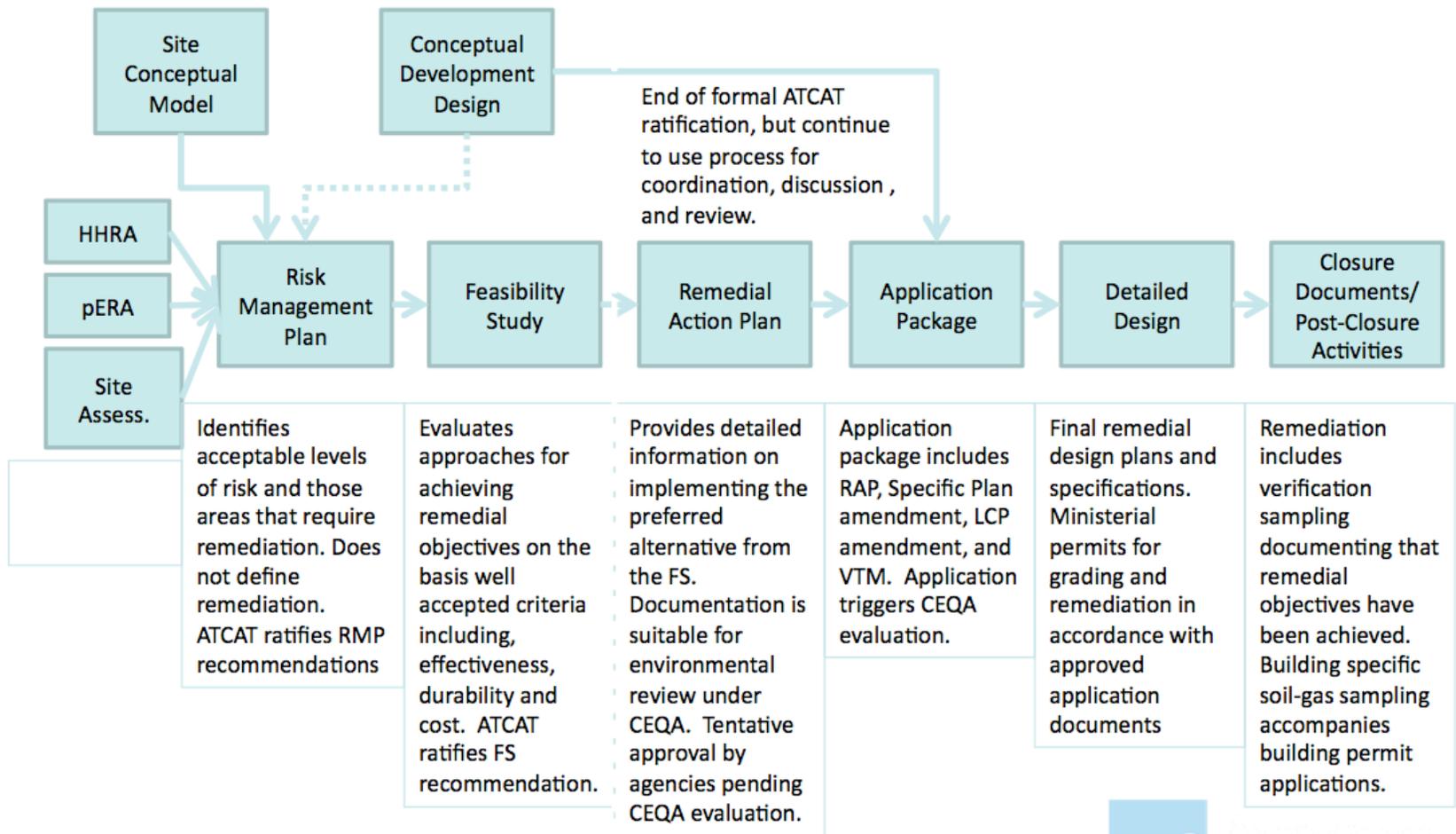
Upcoming Meeting Dates and Agenda Items

ATCAT Meeting in SLO – Thursday, October 20, 2011 (9:30 AM – 3:00 PM)

1. Review the Agency Determination Letter
2. Review proposed development plan approved by the CPDEP, if available.
3. Present "baseline" condition and CSM and discuss implications.
4. Review the revised RMP summary table 3-1.
5. Review RMP issues and agree on a schedule to complete the RMP.

Figure 1

Environmental Document Process



Avila Tank Farm Collaborative Assessment Team

Ratified Conference Call Summary

Date: November 1, 2011

Time: 9:30 AM – 10:30 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|------------------|-----------------------------|
| Bill Almas | Chevron | Steve McMasters | SLO County Planning & Bldg. |
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Melissa Boggs | CDFG | Aaron LaBarre | SLO County Dept. of Health |
| Louis Cappel | Padre Associates | Debbie Rudd | RRM Design Group |
| Regina Donohoe | CDFG | Kyle Rutherford | Chevron |
| Jennifer Holder | ERM | Kim Tulledge | Chevron |
| Ryan Hostetter | SLO County Planning & Bldg. | Robert Van Hying | Avocet Environmental |
| Chuck Lambert | McDaniel Lambert | Rik Williams | Chevron |

Chuck Anders convened the conference call and explained that the ATCAT meeting scheduled for November 1st was changed to a conference call because Chevron had focused all their efforts on obtaining internal approval for the proposed site development plan and did not have an opportunity to complete the “baseline case” and ‘conceptual site model” to their satisfaction. The ten action items from the August 30, 2011 meeting will serve as a conference call agenda to review progress and identify outstanding issues.

Action Items from August 30, 2011 ATCAT meeting

- 1) *Chevron will obtain internal approval (through the CPDEP - Chevron Project Development and Execution Process) of the preferred site development plan by the end of October.*

Bill Almas announced that they had met with Chevron’s internal review board on October 26th and received management approval to proceed with their recommended site development plan through the pre-feasibility study (previously called Risk Management Plan), Feasibility Study (FS) and Remediation Action Plan (RAP).

Bill indicated that they had been working with a number of external stakeholders in the Avila Beach community and felt it was unfair to discuss details of the plan until they could talk with the stakeholders. He noted that the recommended plan was consistent with the site plan that the ATCAT had been working with and would be a visitor serving use and include a small hotel with a restaurant and rental cottages for family accommodations. He anticipates making the recommended site plan public after the first of the year.

- 2) *Chevron will meet with County Planning regarding the application process by the middle of October.*

Bill Almas indicated that Chevron had met with Steve McMasters and Ryan Hostetter

and have a better understanding of the application process. He noted that Chevron does not anticipate making a formal application until later in 2012.

The application will include multiple parts and likely require amendments to the Avila Specific Plan, Local Coastal Program (LCP) and Coastal General Plan, which will also require a review and approval from the California Coastal Commission.

- 3) *Chevron will meet with County Planning regarding the preferred site development plan no later than 30 days after CPDEP approval.*

Chevron anticipates hosting stakeholder meetings to discuss the recommended plan prior to the public meetings required by the County. Chevron and County Planning will meet in January 2012 to coordinate activities and schedules.

- 4) *Aaron LaBarre, in cooperation with Andy Mutziger and Dan Niles, will issue a letter of preliminary Agency determination by the end of September.*

Bill Almas noted that Chevron had requested that County Health not issue the letter of preliminary Agency determination until they could discuss their concerns regarding the 10^{-6} excess cancer risk for the site wide recreational user. Chevron and County Health met the week of October 24th and he anticipates further discussions.

Aaron LaBarre explained that County Health is currently reviewing Chevron's concerns regarding the recreational user action level and will send the information to the APCD and RWQCB for input. He noted that he would review the agency conclusions with Chevron before formally responding. He was not sure of the timing for the review and would provide an update on the timeline in the following week.

- 5) *County Planning will contact the California Coastal Commission (CCC) staff and inform them of the potential project under development and identify a CCC staff person to receive further ATCAT information.*

Steve McMasters spoke with Jonathan Bishop with the CCC in Santa Cruz regarding the pending application. Jonathan will be the contact for the LCP amendment. Jonathan will contact the Energy, Ocean Resources and Federal Consistency Division in San Francisco (which handled the Avila Pier review) to see how they would like to be involved and who would take the lead for the CCC. Steve will follow-up to get the contact information from Jonathan. Steve anticipates more involvement due to the LCP amendment.

- 6) *Andy Mutziger will talk with Larry about updating the Project Avila 2000 risk assessment using current methodologies.*

Chuck Anders explained that Andy could not join the call due to a family matter and that he was working on this issue. He will discuss the status of this item at our next meeting.

- 7) *Chevron will define the "baseline" case (description of site conditions after voluntary Chevron activities assuming no development or required regulatory actions) by the end of September.*

Kyle Rutherford indicated that Chevron is still working on the internal definition of the base case, which he defines as the things that would take place at the site under any circumstances. This would take into account Chevron's internal standards and the requirements of the RWQCB and other agencies in the absence of any development and include:

- Ecological drivers,

- Human health pathways, and
- Regulatory requirements.

Kyle noted that the primary motivation for this effort was to address ecological implications of a “no development” scenario. He anticipates completion within 2-3 weeks.

(Please note that the definition of the baseline case in the original action item #7 is not correct since the baseline case would include regulatory requirements for a “no development” scenario.)

8) *Chevron will develop a Conceptual Site Model by October 20th.*

Robert Van Hying reported that they are still working on the Conceptual Site Model and that it should be completed within four weeks.

9) *Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date.*

Jennifer Holder noted that they have received specific comments on the summary table and have all the information necessary to make the revisions; however, she recommends waiting for the letter of Agency determination before making the edits. Since we are changing the Risk Management Plan to a Pre-Feasibility Study she would like to see what this document will look like before making changes. It was agreed that this was a reasonable approach.

10) *Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter.*

It was agreed to wait to get a better understanding of what the Pre-Feasibility Study document will look like before making revisions. Nothing in Action Items 9 or 10 will affect the Base Case or Conceptual Site Model.

Upcoming Meeting Dates and Agenda Items

The Base Case and Conceptual Site Model will be complete by the end of November; therefore, an ATCAT meeting in San Luis Obispo was scheduled for December 5, 2011 from 9:30 AM – 3:00 PM.

ATCAT Meeting in SLO – Monday, December 5, 2011 (9:30 AM – 3:00 PM)

1. Review the Agency Determination Letter, if issued
2. Potential revisions to the Project Avila air quality assessment
3. Update on CCC involvement in ATCAT and LCP amendments
4. Review base case condition and discuss implications
5. Review CSM and discuss implications.
6. Review RMP/Pre-Feasibility Study issues and agree on a schedule to complete the document.

Avila Tank Farm Collaborative Assessment Team

Meeting Summary

Date: December 5, 2011

Time: 9:30 AM – 2:00 PM

Location: RRM Design, 3765 South Higuera St., Suite 102, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|------------------|----------------------|
| Bill Almas | Chevron | Andrew Mutziger | APCD |
| Chuck Anders | Strategic Initiatives | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Debbie Rudd | RRM Design Group |
| Teri Copeland | Consulting Toxicologist | Kim Tulledge | Chevron |
| Regina Donohoe | CDFG | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ERM | George Webber | ERM |
| Ryan Hostetter | SLO County Planning & Bldg. | Rik Williams | Chevron |
| Chuck Lambert | McDaniel Lambert | | |

Teri Copeland informed the group that Aaron LaBarre would not be able to attend the meeting because he had to stand-in for his supervisor who was away from the office.

Safety Moment

Louis Cappel emphasized the importance of ladder safety, especially during the holiday season when people are hanging lights. He recommended using a certified ladder, which is designed for the appropriate use. It is a good practice to read the safety instructions printed on ladder before each use and also have another person hold and support the ladder when it is in use.

Ratify Previous Meeting Summaries

The August 30, 2011 ATCAT meeting summary, version2, was ratified as written. The November 1, 2011 ATCAT conference call summary, version 2, was also ratified as written.

Review Status of Action Items

- 1. HHRA and Pre-Feasibility Regulatory Update** - Bill Almas indicated that he and Chuck Lambert met with Aaron LaBarre and Curt Batson with Environmental Health Services to discuss their concern about the 10^{-6} action level for the site-wide recreational receptor and the importance of taking into consideration the nature of the receptor and the regulatory drivers. Bill indicated that Aaron intended to contact Steve DiZio with the California Department of Toxic Substance Control (DTSC) to discuss the issue. Teri Copeland confirmed that the discussion took place. Andy Mutziger noted that Aaron intends to coordinate with the APCD and RWQCB to resolve the issue this week and finalize the letter of determination. Chuck Anders will distribute the letter to the full ATCAT when it is finalized.
- 2. Potential revisions to Project Avila Air Quality Assessment** – Andy Mutziger indicated that he had met with the APCD staff and also with Aaron LaBarre and Dan Niles to discuss the implications of revising the Project Avila Air Quality Assessment. He has asked Teri Copeland to evaluation the implications of the revisions. They will meet again this week to review her input and make a decision.

3. **CCC involvement with ATCAT and General Plan Amendment** - Ryan Hostetter confirmed that County Planning met with Chevron representatives to review the status of the project and also met with the California Coastal Commission (CCC) staff to inform them of the pending project application. She noted that the CCC approach is changing and that they would prefer to address land use and zoning issues in the Local Coastal Program (LCP) before a detailed project application is submitted.

Debbie Rudd suggested setting up a meeting with the CCC staff when they are in the area to brief them on the project. Bill Almas indicated that they were willing to meet with the CCC staff at their offices if they would prefer.

It was agreed to add Jonathon Bishop and Dan Carl with the CCC Central Coast District Office located in Santa Cruz to the ATCAT distribution list. Ryan will provide Chuck Anders with their contact information.

4. **Site Conceptual Model update** - Robert Van Hyning noted that Chevron needs to finalize the LNPL report and the cliff springs source area investigation report before the Site Conceptual Model can be completed. Once these reports are completed, they will meet with Dan Niles to review the conclusions and complete the Site Conceptual Model.

Development Conceptual Plan

Bill Almas noted that Chevron has been working with the Avila Beach community stakeholders to roll out the location and type of proposed land use on the site. He observed the importance of providing information to the ATCAT and at the same time respecting ongoing relationships with community stakeholders and share more detailed information with them first.

Bill reviewed a revised bubble chart that compared the original development areas (bubbles) and the modified bubbles based on the updated development conceptual plan. Some of the bubbles were slightly enlarged or combined. Bubbles F and H were removed based on preliminary information from the cliff area investigation and cliff erosion.

All uses will be visitor-serving and there will be no residential uses; therefore, the residential uses previously planned for bubbles A and M were eliminated. Lodgings will be a combination of hotels and family-oriented 1,2 and 3 bedroom cottages.

Site activities have been grouped into three categories:

- Lodging with meeting facilities
- Lodging, and
- Ancillary use.

Bill also reviewed the implications of the revised bubbles on the soil management zones with greater than 1,000 mg/kg TPC concentrations and the maximum disturbance limits for all activities. He noted that it was unclear how the cliff area would be addressed at this time. He also indicated that there would be some restorative grading to breakup linear features caused by prior development.

Rik Williams reviewed the remedial activities that Chevron anticipates taking place under any circumstances. This includes:

- Removal of pipelines within excavations and the potential cliff retreat zone,
- In other areas, remove or grout in-place pipelines > 4" diameter,
- Remove all surface buildings and appurtenances,
- Remove concrete pads.
- Remove TPH source material in the pump house and loading rack area,
- Remove remaining water tanks,

- Remove refractory glass and lead impacted soil from former tank rings,
- Remediate to provide adequate separation for near surface non-asphaltic TPH impacted soils,
- Replace original storm water pipes with gravity drained open channel or a designed storm water system, and
- Mitigate cliff area impacts as evaluated in the Feasibility Study.

Dan Niles questioned how Chevron's list of actions fit into the overall context of final remedial outcomes and the relationship of the intended actions in meeting the range of the agencies' cleanup requirements (risk and otherwise). Another aspect Dan Niles asked about was how and when Chevron planned to do the work in relation to when construction mobilization occurred for implementing the final remedy. Lastly, Dan Niles asked what Chevron's objectives were for defining performance measures for their proposed actions; i.e., extent of "source removal" to what endpoint(s), why other source areas other than the fueling area were not included in the list for "sources removal," such as the non-aqueous phase liquids in the topographically higher former refinery area; surface water controls to reduce potential discharges of pollutants to surface water during any such activities, etc. Dan Niles indicated the need for Chevron to define and put their listed items in context with the overall remedy and intended outcomes relative to meeting regulatory requirements. It became apparent that there was a misunderstanding regarding the terms being used; therefore, the ATCAT agreed to use the following terms and definitions:

"Chevron Minimum Proposed Site Activities" - would include the above items that Chevron would do regardless of regulatory requirements.

"Baseline Site Activities" - would include the Chevron Minimum Proposed Site Activities plus activities required by regulatory agencies.

Dan Niles noted that he would prefer to evaluate the site remediation requirements by media independent of development. He envisions a large matrix identifying the remediation requirements for each distinct area and media. Dan also raised the issue of evaluating groundwater as it relates to land use. He noted that the Remediation Technology Panel (RTP) presumed no development in their evaluation of groundwater at the site. Bill Almas recalled that the RTP did not consider land use as part of their evaluation. It was agreed that Chevron would work closely with Dan to clarify and resolve these issues in preparation of the Site Conceptual Model.

Jenifer Holder and Regina Donohoe indicated that it was important to refine the appropriate level of separation for near-surface non-asphaltic TPH-impacted soils at the site. Jenifer emphasized the need to review each area separately and consider geologic and specific site conditions. She noted that most of the TPH-impacted areas are within development bubbles and only 20% – 25% are not covered and would require further assessments. Regina suggested that the implications on groundwater also be considered. Dan Niles added that the impact of drainage on infiltration should also be addressed since the site conditions were not static.

Andy Mutziger requested that the need for off-site transport be minimized as alternative remediation strategies are evaluated in order to reduce air quality impacts to the community.

Tasks and Projected Schedule for 2012

Bill Almas anticipates that Chevron will proceed with their public outreach efforts within the Avila Beach community during the first quarter of 2012 and proposed the following schedule of activities for the ATCAT:

| Activity | Proposed Completion Date |
|--------------------------------------|---------------------------------|
| Consensus on Site Conceptual Model | February 2 |
| Wetland Delineation Verification | March 26 |
| Pre-Feasibility Study | April 30 |
| Feasibility Study | July 30 |
| Remedial Action Plan | November 15 |
| Project Application or LCP Amendment | December 15 |

Jennifer Holder suggested that we prepare an outline of the Pre-Feasibility Report and Feasibility Study to assure that all potential critical issues are identified. Key issues include 1) the implication of the expanded bubbles on the conclusions of the ecological and human health risk assessments and 2) how to address the Chevron Proposed Minimum Site Activities. It was agreed that a section be added to the Pre-Feasibility Report that discusses the implications of the revised development bubbles.

The benefit of including a compendium of site information and an overview of the decision process was also discussed. Jennifer suggested that the Site Conceptual Model include a history of site activities and appropriate reference material. Regina suggested a summary of the remedial investigation be included. It was agreed to include a summary document and graphic timeline by media in the Pre-Feasibility Report. Robert Van Hyning and Louis Cappel will prepare this information for inclusion in the Pre-Feasibility Report. Reference materials, including all historic site studies and documents would be included on a CD. This would be useful for public transparency and could also be used in project application documents.

A conference call will be held on Monday, January 30, 2012 from 1:30 – 2:30 PM to review the draft outline of the Pre-Feasibility Report.

An ATCAT meeting was scheduled for Tuesday, March 6, 2012 from 9:30 AM – 3:00 PM to review the Site Conceptual Model.

Action Items

- 1) EHS will issue a "Letter of Determination" with an action level for the recreational receptor by December 14th.
- 2) Andy Mutziger will determine the utility of reevaluating the original Project Avila Air Quality Assessment by December 9th.
- 3) Ryan Hostetter will provide Chuck Anders with the contact information of CCC staff.
- 4) Chevron will meet with Dan Niles to resolve Site Conceptual Model issues and report back to the ATCAT by February 28th.
- 5) Robert Van Hyning and Louis Cappel will prepare a site history and compendium of site information, including reference materials, by January 31st.
- 6) Jennifer Holder will draft an outline of the Pre-Feasibility Report and the Feasibility Study by January 16th.
- 7) Louis Cappel will finalize the Cliff Area Investigation and the LNPL Report and submit to Dan Niles by December 16th.

Action Items carried over from August 30, 2011 ATCAT meeting.

- 8) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.)

Drafted by Strategic Initiatives based on the December 5, 2011 ATCAT Meeting. Reviewed, revised, and ratified during the January 30, 2012 ATCAT Conference Call.

- 9) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter.

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call – Monday, January 30, 2012 (1:30 PM – 2:30 PM)

1. Review the draft outline of the Pre-Feasibility Report.

ATCAT Meeting in SLO – Tuesday, March 6, 2012 (9:30 AM – 3:00 PM)

1. Review the Draft Site Conceptual Model.

Drafted by Strategic Initiatives based on the January 30, 2012 ATCAT conference call. During the March 6, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

Avila Tank Farm Collaborative Assessment Team

Ratified Conference Call Summary

Date: January 30, 2012

Time: 1:30 PM – 2:30 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|-------------------|-----------------------------|
| Bill Almas | Chevron | Aaron LaBarre | Environmental Health |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs | CDFG | Steve McMasters | SLO County Planning & Bldg. |
| Louis Cappel | Padre Associates | Andrew Mutziger | APCD |
| Teri Copeland | Consulting Toxicologist | Dan Niles | RWQCB |
| Becky Countway | McDaniel Lambert | Debbie Rudd | RRM Design Group |
| Regina Donohoe | CDFG | Kim Tulledge | Chevron |
| Jennifer Holder | ERM | Robert Van Hyning | Avocet Environmental |
| Ryan Hostetter | SLO County Planning & Bldg. | Rik Williams | Chevron |

Safety Moment

Rik Williams noted that a squirrel or rodent chewed up wiring on two vehicles left in the Chevron parking lot for extended periods of time. He recommended checking under the hood for nests or damage anytime you leave your vehicle parked for extended periods.

Ratify December 5, 2011 Meeting Summary

Rik Williams raised a procedural question regarding the review and ratification of meeting summaries. He had questions regarding additional language added by Dan Niles and wondered whether he should coordinate with Dan to resolve the issue Dan raised before the summary was ratified. Dan explained that he added the language to more fully capture his comments at the meeting. Chuck Anders noted that the meeting summary is a snapshot in time of the collaborative process and is a means to establish a common understanding and clarify issues. It was agreed to include Dan’s suggested changes; Rik will discuss his concerns with Dan and subsequent actions will be captured in future meeting summaries.

Bill Almas suggested deleting the second sentence in the definition of “*Chevron Minimum Proposed Site Activities*” since it seemed out of context. This recommendation was approved and the December 5, 2011 ATCAT meeting summary, version 2, was ratified.

Review Pre-Feasibility Report Outline

Jennifer Holder reviewed the draft outline of the Pre-Feasibility Report (PFR) that was previously distributed. The Introduction will provide background information and discuss why the PFR was developed. She noted that the PFR, previously called the Risk Management Plan, will be used to identify the issues to be addressed in the Feasibility Study (FS). She also discussed the PFR objectives.

Sections 2 and 3 will focus on past site activities, remedial investigations and risk assessments. Section 4 will address the risk management process. Section 5 will present human health and ecological risk management evaluations for the proposed development scenario and the baseline

Drafted by Strategic Initiatives based on the January 30, 2012 ATCAT conference call. During the March 6, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

remediation scenario. Section 6 will review the Applicable or Relevant and Appropriate Requirements (ARARs). It was agreed that the regulatory agencies participating in the ATCAT would prepare a preliminary list of ARARs and submit them to Jennifer by March 12th. Robert Van Hyning will send Chuck Anders the definition of ARARs and examples from the SLO Tank Farm for distribution to the full ATCAT. Section 8 will discuss the various risk management tools similar to the previous draft of the Risk Management Plan. Section 9 will present the remedial action objectives to be used in the FS. Section 10 will summarize the findings and conclusions of the PFR and Section 11 will include an extensive list of references and background resources.

The ATCAT participants agreed to provide comments (or a response that they have no comments) on the draft PFR outline to Jennifer by February 14th.

Action Items

| Status | Action Item | Comments |
|---|---|---|
| Action Items from December 5, 2011 ATCAT Meeting | | |
| Ongoing | 1) EHS will issue a "Letter of Determination" with an action level for the recreational receptor by December 14 th . | Chevron and EHS have been meeting to resolve the question of the action level for the recreational user. EHS is reviewing a recent memorandum from Chuck Lambert and anticipates issuing the Letter of Determination in the near future. Aaron LaBarre will meet with APCD and RWQCB this week to discuss the final letter and inform Chuck Anders of the proposed distribution date. Bill Almas noted that, while the collaboration between the three agencies is important, it should not hold up the issuance of the letter since each agency has the authority to issue a letter based on their individual requirements. |
| Complete | 2) Andy Mutziger will determine the utility of reevaluating the original Project Avila Air Quality Assessment by December 9 th . | APCD has come to a determination and will include their commentary in the Letter of Determination. |
| Complete | 3) Ryan Hostetter will provide Chuck Anders with the contact information of CCC staff. | Chuck Anders noted that Dan Carl and Daniel Robinson are the CCC contacts. They will monitor the ATCAT activities and participate where appropriate. |
| Due 2/28/12 | 4) Chevron will meet with Dan Niles to resolve Site Conceptual Model issues and report back to the ATCAT by February 28 th . | Chevron met with Dan Niles to review the Cliff Area Investigation and LNPL report. Dan requested that additional topological information be incorporated into site cross-sections. Robert Van Hyning and Louis Cappel will make their best effort to complete the Site Conceptual Model by February 28 th for review at the March 6 th ATCAT meeting. |
| Due 2/21/12 | 5) Robert Van Hyning and Louis Cappel will prepare a site history and compendium of site | Completion of site history extended to February 21 st . |

Drafted by Strategic Initiatives based on the January 30, 2012 ATCAT conference call. During the March 6, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

| | | |
|--|---|--|
| | information, including reference materials, by January 31 st . | |
| Complete | 6) Jennifer Holder will draft an outline of the Pre-Feasibility Report and the Feasibility Study by January 16 th . | Complete - comments on draft outline due by February 14 th . |
| Due 2/2/12 | 7) Louis Cappel will finalize the Cliff Area Investigation and the LNPL Report and submit to Dan Niles by December 16 th . | Rik Williams and Louis Cappel met with Dan Niles and will submit the final documents to Dan on February 2 nd or sooner. |
| Pending | 8) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.) | Dependant on issuance of the Letter of Determination |
| Pending | 9) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter. | Dependant on issuance of the Letter of Determination |
| New Action Items from 1/30/11 Conference Call | | |
| Due 2/2/12 | 10) Robert Van Hyning will send Chuck Anders the definition of ARARs and examples from the SLO Tank Farm for distribution to the full ATCAT by February 2 nd . | |
| Due 2 /3/12 | 11) Aaron LaBarre will meet with APCD and RWQCB this week to discuss the final Letter of Determination and inform Chuck Anders of the proposed distribution date by February 3 rd . | |
| Due 2/14/12 | 12) ATCAT participants will submit written comments on draft Pre-Feasibility Report outline to Jennifer Holder by February 14 th . | |
| Due 3/12/12 | 13) Regulatory agencies participating in the ATCAT will submit a preliminary list of ARARs to be included in the Pre-Feasibility Report by March | |

Drafted by Strategic Initiatives based on the January 30, 2012 ATCAT conference call. During the March 6, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

| | | |
|--|--------------------|--|
| | 12 th . | |
|--|--------------------|--|

Upcoming Meeting Dates and Agenda Items

ATCAT Meeting in SLO – Tuesday, March 6, 2012 (9:30 AM – 3:00 PM)

NOTE: Meeting time may be shortened depending on agenda.

1. Review the Draft Site Conceptual Model.
2. Discuss PFR Outline Comments, if necessary
3. Discussion of ARARs (tentative)

Drafted by Strategic Initiatives based on the March 6, 2012 ATCAT conference call. During the March 29, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

Avila Tank Farm Collaborative Assessment Team

Ratified Conference Call Summary

Date: March 6, 2012

Time: 9:30 AM – 10:30 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|------------------|----------------------|
| Bill Almas | Chevron | Aaron LaBarre | Environmental Health |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs | CDFG | Andrew Mutziger | APCD |
| Louis Cappel | Padre Associates | Debbie Rudd | RRM Design |
| Teri Copeland | Consulting Toxicologist | Kim Tulledge | Chevron |
| Becky Countway | McDaniel Lambert | Robert Van Hying | Avocet Environmental |
| Regina Donohoe | CDFG | George Weber | ERM |
| Jennifer Holder | ERM | Rik Williams | Chevron |
| Ryan Hostetter | SLO County Planning & Bldg. | | |

Announcements

Kim Tulledge informed the ATCAT that Chevron recently donated \$36,000 toward the completion of the Bob Jones Bike Trail.

Safety Moment

Rik Williams reminded everyone that daylight savings time begins on March 10th and it's a good reminder to check things like windshield wipers, batteries in smoke detectors, flashlights and other devices that require routine maintenance.

Ratify January 30, 2012 Conference Call Summary

No comments were offered during the conference call. Participants requested additional time to review the draft summary. Comments are to be submitted to Chuck Anders by close of business on Wednesday, March 7th. The draft summary will be considered ratified in no substantive comments are received.

Rik Williams asked if a statement provided by Dan Niles regarding work on the Site Conceptual Model should be added to the January 30th meeting summary. Chuck Anders indicated that it would be included in the meeting summary of the March 6th meeting.

Review of Action Items from January 30, 2012 ATCAT Conference Call

Chuck Anders noted that all of the action items from the January 30, 2012 ATCAT conference call had either been completed or would be discussed during this conference call.

Letter of Determination

Aaron LaBarre hopes to issue the letter in its final form by the end of next week. He noted that they have evaluated the site-wide recreational receptor work product and agree with the conclusions and that the issue has been adequately addressed. Aaron also noted that he conferred with DTSC regarding the screening levels for lead in the areas where a child might be

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present and that it appears these areas would be taken care of with the anticipated soil excavation. The letter will also mention concerns with methane generation, which is typically addressed in the application process.

Aaron is working with Andy Mutziger regarding the final language for cumulative risks and it is close to being finished. He further observed that the new methodology used to calculate cumulative cancer risks resulted in a risk slightly less than 1×10^{-6} . Becky Countway added that the new methodology has statistical procedures to deal with non-detect samples with higher detection limits, which results in a reduction in overall risk. Bill Almas emphasized that while the overall risk is less than 10^{-6} , this should not be considered the clean-up level for remediation. He further emphasized that Chevron needed the Letter of Determination before they could proceed further with the Preliminary Feasibility Report and Feasibility Study.

Pre-Feasibility Report Outline

Jennifer Holder distributed a revised draft of the Pre-Feasibility Report outline prior to the conference call. The revised draft included revisions suggested by Andy Mutziger and Melissa Boggs. No additional comments were offered during the conference call. Jennifer noted that the Letter of Determination and draft ARARs were critical inputs to the preparation of the Pre-Feasibility Report.

ARARs

Robert Van Hying opened the discussion of the ARARs. Ryan Hostetter questioned why the coastal zone was included in the example ARARs table for the San Luis Obispo Tank Farm when the SLO Tank Farm is not located in the coastal zone. Robert indicated that the coastal zone was included to show that it was considered and then checked "not applicable." Ryan indicated that she would provide a general overview of the County's requirements. Robert emphasized that the more specific the ARARs, the better. Bill Almas added that it is the applicant's responsibility to identify the ARARs in the FS and that is very helpful to understand the agencies thinking regarding the remediation requirements and regulations.

Melissa Boggs indicated that the CDFG will be submitting draft ARARs and it may be a few days beyond the March 12th due date because it has to be reviewed by the DFG legal department.

Site Conceptual Model

Rik indicated that Chevron is working with Dan Niles to clarify and resolve the issues Dan raised at the December 5, 2011 ATCAT meeting regarding regulatory requirements. He noted that Dan reaffirmed that they would work together on the Site Conceptual Model, which will be a site description based on the data and information gathered from past studies. Any data gaps that are discovered or are not addressed in the recent studies currently under review by the RWQCB will be captured in the Pre-Feasibility Study, which will be done after the Site Conceptual Model is complete and shared with the ATCAT.

Since Dan was unable to participate in this conference call, Rik read the following statement that Dan prepared to share with the ATCAT:

The RWQCB is currently reviewing two documents they received in January 2012 pertaining to the evaluation of the mobility and potential recoverability of LNAPL (LNAPL Pilot Study), as well as the supplemental assessment of soil/bedrock and groundwater at the cliff area of the site (Cliff Area Characterization). The RWQCB plans on issuing separate comment letters on each document. The RWQCB has reviewed the LNAPL Pilot Study Report in detail, and is in the process of verifying the assumptions and calculations in the document with an internal peer review prior to issuing a comment letter. Once comments letters on these two studies have been prepared, Chevron and the RWQCB staff will use these findings and those in

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earlier studies to formulate and come in alignment with a Site Conceptual Model.

The RWQCB has performed a cursory review of the Cliff Area Characterization Report, and plans on meeting with CEMC in a couple of weeks (mid to late March) to discuss any comments or questions prior to issuing a comment letter. Initial discussions regarding the Site Conceptual Model may be held at this time. A review of the current Monitoring Program will also be done.

Rik anticipates meeting with Dan the week of March 19th where a more detailed schedule for completion of the site conceptual model will be prepared.

Compendium of Site Information and History

Robert Van Hying shared the draft timeline and spreadsheet of site documents, which included over 160 individual entries. He plans to post this information on an FTP site and include links so that ATCAT participants would have easy access to all project documents. He hopes to include a search function at some time in the future to make it easy to search for specific topics.

Bill Almas envisions this compendium to be a clearinghouse for site data and information in the EIR process.

Action Items

The following action items resulted from the conference call:

| Status | Action Item |
|-----------------|--|
| Due March 12 | 1) Regulatory agencies participating in the ATCAT will submit a preliminary list of ARARs to be included in the Pre-Feasibility Report. |
| Due March 16 | 2) EHS will finalize and issue the "Letter of Determination." |
| Due March 23 | 3) Robert Van Hying and Louis Cappel will prepare a site history and compendium of site information, including reference materials and distribute a draft table of site information. |
| Due March 27 | 4) Chevron will meet with Dan Niles to resolve Site Conceptual Model issues and distribute a written status report. |
| Pending | 5) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.) |
| Pending | 6) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver. 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter. |

Drafted by Strategic Initiatives based on the March 6, 2012 ATCAT conference call. During the March 29, 2012 ATCAT conference call, it was agreed to provide additional time for review. No additional comments were received; therefore, the conference call summary is considered ratified.

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call – Thursday, March 29, 2012 (1:30 PM – 3:30 PM)

1. Letter of Determination
2. Draft Table of ARARs
3. Status of Site Conceptual Model
4. Schedule for Pre-Feasibility Report and Feasibility Study
5. Site Information Database
6. Path Forward – Schedule of Activities

Status of Site Conceptual Model

Rik indicated that he and Louis Cappel continue to work with Dan Niles to develop the Site Conceptual Model and resolve remaining issues. Dan was not able to participate in the conference call due to a conflict with mandatory training class. Dan, Louis and Rik prepared the following status report to share with the full ATCAT:

LNAPL - RWQCB has reviewed the Padre's LNAPL Mobility and Recoverability Pilot Study Report and would like to discuss the remedial alternatives to be evaluated in the Feasibility Study.

Cliff Area - RWQCB has performed a cursory review of the Supplemental Cliff Area Characterization Report, and will provide comment within the next month. RWQCB would like to perform a site walk at the cliff area during low tide to facilitate discussions regarding future cliff area monitoring activities.

Site Conceptual Model (SCM) - RWQCB reviewed the draft outline that was submitted last week and suggested comparing it with the original RMP to include/mention/capture applicable portions of the original RMP in developing the SCM outline. Dan suggested the comprehensive nature of the RMP provided a good template for the SCM development.

Rik, Louis and Dan will meet in mid-April to further discuss LNAPL remedial alternatives and revisit the monitoring program to incorporate recent investigation data and new wells in the cliff area. This will be done in conjunction with revitalizing the cliff area monitoring and reporting program since the cliff area landslide.

Rik will provide a progress report to the full ATCAT prior to the next ATCAT conference call.

Schedule for Pre-Feasibility Report

Jennifer Holder is compiling a detailed list of information and data requirements to complete each section of the Pre-Feasibility Report in order to understand the critical path and availability of data. She will meet with the appropriate individuals or organizations next week before she prepares an overall schedule for the completion of the draft Pre-Feasibility Report. She anticipates distributing a preliminary schedule by April 12th.

Bill Almas asked which were the critical path items. Jennifer noted that there were a wide variety of elements that require coordination in the Pre-Feasibility Report and offered the Site Conceptual Model and ARARs as examples of critical path items.

Jennifer also noted that the Pre-Feasibility Report outline may require tweaking for clarity and readability.

Compendium of Site Information and History

Robert Van Hying indicated that the compendium of site information is complete and is undergoing internal review. The compendium consists of an extensive list of reports and documents that is currently in a searchable spreadsheet with links to the actual documents in PDF format. The information will be located on an FTP site that will be accessible with a username and password. The compendium will include all pertinent reports, including ATCAT minutes. Robert envisions the compendium to ultimately be accessed through a search interface instead of a spreadsheet.

Rick Williams questioned whether the database would identify which agency received the information and whether it is possible to match attachments to actual documents, since many reports, such as monitoring data, are attachments to other documents.

Robert expects to make the compendium accessible to the ATCAT participants by April 13th.

Schedule of Activities

Bill Almas provided an overview of the updated project schedule and noted that based on today's discussion of the Site Conceptual Model, the schedule is likely to take even longer because the Site Conceptual Model is critical path. He observed that based on the current sequential process most of the other project activities would also shift back.

Proposed 2012 - 2013 ATCAT Activities Revised Target Dates

| Activity | Original Target Date Revised Date |
|----------------------------------|--------------------------------------|
| Site Conceptual Model Consensus | February 28 April 23 |
| Wetland Delineation Verification | March 26 May 7 |
| Pre-Feasibility Report | April 30 July 17 |
| Feasibility Study | July 30 Jan. 8, 2013 |
| Remedial Action Plan | November 15 June 5, 2013 |
| Project Application | December 15 Oct. 11, 2013 |

Bill questioned whether it was possible to pursue a dual track and obtain Coastal Commission approval of a generalized Specific Plan/LCP Amendment while completing the Feasibility Study. Steve McMasters indicated that a dual-track process was a doable strategy. This approach would require the Specific Plan/LCP Amendment to be based on general assumptions and the subsequent project application would have to be consistent with those assumptions. Bill concluded that the dual-track approach was a viable possibility and would like to meet with Steve and Ryan Hostetter to discuss further. He will report the conclusions of the discussions to the ATCAT by the end of April.

Kim Tulledge questioned whether it made sense to bring an EIR consultant on board at this time to assist with the project development process and help prepare the project application. Steve indicated that it would be OK to bring a consultant on early and that a preliminary application was required to start the process.

Action Items

The following action items resulted from the conference call:

| Status | Action Item |
|-----------------|--|
| Due March 30 | 1) Provide comments, if any, on the draft 3/6/12 ATCAT conference call summary. |
| Due March 30 | 2) APCD will submit draft ARARs to Jennifer Holder. |
| Due April 12 | 3) Jennifer Holder will provide a schedule for preparation of the Pre-Feasibility Report. |
| Due April 13 | 4) Robert Van Hyning will complete the Compendium of Site Information and provide access information to the ATCAT participants. |
| Due April 30 | 5) During April, Chevron will meet with SLO County Planning to discuss the dual-track permitting approach and bringing an EIS consultant on board. Bill Almas will report back to the ATCAT by April 30 th . |
| Due May 7 | 6) Robert Van Hyning will distribute the draft ARARs table. |
| Due May 7 | 7) Chevron and RWQCB will continue meeting to address Site Conceptual Model issues. Rik Williams will provide a written status report by May 7 th for discussion at the May 10 th conference call. |
| Pending | 8) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.) |
| Pending | 9) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver. 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter. |

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call – Thursday, May 10, 2012 (1:00 PM – 2:30 PM)

1. Review Draft Table of ARARs
2. Status of Site Conceptual Model
3. Schedule for Pre-Feasibility Report and Feasibility Study
4. Site Information Database
5. Path Forward
 - a. Dual-Track Permitting Process
 - b. Schedule of Activities

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: May 10, 2012

Time: 1:00 PM – 2:00 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------------|------------------|-----------------------------|
| Chuck Anders | Strategic Initiatives | Steve McMasters | SLO County Planning & Bldg. |
| Melissa Boggs | CDFG | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Andrew Mutziger | APCD |
| Teri Copeland | Consulting Toxicologist | Debbie Rudd | RRM Design Group |
| Regina Donohoe | CDFG | Kim Tulledge | Chevron |
| Jennifer Holder | ERM | Robert Van Hying | Avocet Environmental |
| Ryan Hostetter | SLO County Planning & Bldg. | Thea Tryon | RWQCB |
| Aaron LaBarre | Environmental Health | Rik Williams | Chevron |
| Chuck Lambert | McDaniel Lambert | | |

Announcements

At the beginning of the conference call Rik Williams announced that on Tuesday (5/8/2012), a Chevron employee, a representative of California Fish & Game and a representative of the Regional Water Quality Control Board observed a milky white opaque film or sheen on an approximate 25 square foot area of ocean water in a 10' by 30' rock laden area at Avila Beach below the former Union Oil Avila Marine Terminal (now managed by Chevron). As the source was unidentifiable, samples were taken by agency representatives and Chevron.

Preliminary test results received Wednesday (5/9/2012) afternoon indicate a presence of hydrocarbons. Appropriate agencies were notified and further analytical testing is in progress. Chevron will submit a work plan with sampling and lab testing protocols to the Regional Water Quality Control Board and other agencies as appropriate to identify the source of the material and to assess short- and long-term measures to identify and mitigate the potential for adverse environmental impacts. Chevron and the agencies will continue to closely monitor the situation.

Ratify March 29, 2012 Conference Call Summary

No comments or revisions were offered during the conference call and the ATCAT ratified the March 29, 2012 conference call summary (ver 1) as written.

Letter of Determination Follow-Up

Chuck Lambert informed the ATCAT that Chevron had submitted some clarifying questions to Environmental Health Services (EHS) in response to the Letter of Determination and that their questions have been answered. Chevron will follow-up with additional soil-gas sampling requested by EHS in areas K and N using a previously approved work plan.

Draft Table of ARARs

Robert Van Hying suggested organizing the draft ARARs into two tables: 1) Federal and 2) State/County/Local where the ARARs would be organized by jurisdiction. It was agreed that the ARARs table would be organized as Robert suggested. Robert anticipates distributing the ARARs by May 31st.

Status of Site Conceptual Model

Rik Williams and Dan Niles reviewed the status of the Site Conceptual Model (SCM):

- **LNAPL Study** – The RWQCB is preparing a Comment Letter on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test and hopes to release it by end of May.
- **Cliff Area Study** – The RWQCB is preparing a Comment Letter on the Report of Findings for the Supplemental Cliff Area Characterization and hope to release it by end of May.
- **Cursory LNAPL Brainstorm** - Dan Niles and the Chevron project team held an initial review of the LNAPL recovery options on 5/2/12. Findings were:
 - Identified 4 areas of interest where LNAPL is present (Refinery, Pump House and Loading Rack, Cliff Area and pipeline corridors)
 - Follow the SWRCB Resolution 92-49 and incorporate other pertinent regulations in the screening and evaluation process
 - Meet Protecting the Human Health and Environmental criteria threshold per the SWRCB Resolution 92-49
 - ARAR Compliance threshold per SWRCB Resolution 92-49
 - A separate document will be prepared regarding the screening process that will include two to four LNAPL alternatives that will be evaluated. These evaluations will be included in the Pre-Feasibility and Feasibility Studies.
- **Monitoring and Report Plan (MRP)** - Louis Cappel will prepare a revised monitoring plan draft by May 18th to submit to the RWQCB. A meeting will be scheduled to finalize a new MRP by June 30th.
- **Site Conceptual Model** - Chevron revised the SCM outline and Table Of Contents based on Dan's input. Avocet is preparing a revised draft for internal Chevron review by May 18th. Chevron plans to submit a draft for the RWQCB review by June 8th.
- **Path Forward:**
 - Complete the SCM draft for internal Chevron review by May 18th
 - Calculate volumetric estimates of the 4 agreed upon areas - Loading Rack-Pump house, Refinery, Pipeline Corridors and Cliff Area by May 18th. Generate graphics and table to facilitate the LNAPL discussions before May 25th.
 - Set up another brain storming session to identify potential LNAPL alternatives in each of the 4 areas by May 31st.
 - Set up a management meeting with RWQCB and Chevron supervisors to review the draft SCM in mid June.

Schedule for Pre-Feasibility Report

Jennifer Holder will distribute an updated schedule for the preparation of the Pre-Feasibility Report, which will include taking into consideration the current soil-gas sampling by May 16th. At this time she anticipates completion of the first draft in the mid-September time frame.

Compendium of Site Information and History

On April 23rd Robert Van Hying distributed information on how to access the compendium of site information and history located on Avocet Environmental’s FTP site.

The access information is as-follows:

- FTP link: ftp://ftp.avocetenv.com
- Username: chevronatf
- Password: gPHm6Q4m (case sensitive)

Ryan Hostetter noted that she was having problems downloading the larger files. Robert suggested that anyone having problems call him after the conference call to discuss alternative ways to access the information.

It was also suggested that ATCAT members review the compendium of site information and identify any gaps or additional information that should be included. Suggestions should be submitted in an email to Robert Van Hying (cc: Chuck Anders) by June 18th so Robert is prepared to discuss any issues during the next conference call.

Path Forward – EIR and Specific Plan Amendments

Chevron met with County Planning to discuss the processing of the EIR and timing, including bringing an EIR consultant on board. Debbie Rudd summarized the items discussed. Chevron anticipates submitting the pre-submittal package including a Specific Plan amendment by the end of 2012, recognizing that the RAP will not be complete. This will allow them to bring an EIR consultant on board by March 2013 to begin the review process with anticipation of completing the RAP by October 2013.

They also discussed forming a subcommittee that would include the ATCAT members, California Coastal Commission, the EIR consultant to assist in development of information necessary for the EIR. Another meeting is scheduled with County Planning for May 17th to continue discussions.

Action Items

The ATCAT participants agreed to a tentative conference call on Monday June 25th from 2:00 PM – 3:30 PM to review and discuss the draft Site Conceptual Model and compendium of site information.

| Status | Action Item |
|-----------------------------|--|
| Due May 16 | 1) Jennifer Holder will distribute an updated schedule for completion of the draft Pre-Feasibility Report. |
| Due May 31 | 2) Robert Van Hying will distribute the ARARs table to the full ATCAT. |
| Due June 8 th | 3) Chevron will submit a draft Site Conceptual Model to the RWQCB for review. |
| Due June 18 | 4) ATCAT participants will review the compendium of site information and identify any gaps or additions via email for discussion at the June 25 th ATCAT conference call. |
| Pending | 5) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.) |
| Pending | 6) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver. 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter. |

Drafted by Strategic Initiatives based on the May 10, 2012 ATCAT conference call. Reviewed and ratified, as written, during the June 25, 2012 ATCAT Conference Call.

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call – Monday, June 25, 2012 (2:00 PM – 3:30 PM)

1. Safety Moment
2. Review and Ratify the May 10, 2012 Draft Conference Call Summary
3. Overview of Draft Site Conceptual Model
4. Review Comments on the Compendium of Site Information
5. Action Items / Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: June 25, 2012

Time: 2:00 PM – 2:40 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|-------------------|-----------------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Steve McMasters | SLO County Planning & Bldg. |
| Trisha Atkins | EHS | Dan Niles | RWQCB |
| Melissa Boggs | CDFG | Thea Tryon | RWQCB |
| Louis Cappel | Padre Associates | Kim Tulledge | Chevron |
| Becky Countway | McDaniel Lambert | Robert Van Hyning | Avocet Environmental |
| Regina Donohoe | CDFG | George Weber | ERM |
| Jennifer Holder | ERM | Rik Williams | Chevron |

Safety Moment

Rik Williams noted that they have observed small pebbles and rocks falling from the cliff area when collecting samples from the intertidal pools. He recommended wearing a hardhat and appropriate safety equipment when working in the vicinity of the intertidal pools close to the cliffs.

Intertidal Pool Activities

Rik Williams recalled that on May 8th, Melissa Boggs, Dan Niles, Louis Cappel and Rik were collecting samples in the cliff area and noticed an odor and slight sheen on the intertidal pools that were exposed during low tide. They collected samples, which verified the presence of hydrocarbons. Chevron proceeded to immediately make the appropriate notifications through the national and state spill response centers.

Since that time, numerous water and sediment samples have been collected. More recently, two rounds of air sampling were conducted on June 7th and June 20th. Louis Cappel noted that the air samples were submitted on Friday and the results should be available on Tuesday or Wednesday. Melissa Boggs also collected mussel specimens for analysis.

Chevron has prepared a draft sampling plan, which has been reviewed by the agencies involved, and he anticipates distributing the final draft within a week.

There are three more negative tide events during daylight hours, which will provide an opportunity to continue sampling. These will occur on July 5-6, July 19-20 and August 2-3 at sunrise (5:00 – 6:00 AM).

A follow-up conference call will take place from 4:00 – 5:00 PM today to discuss the intertidal pool activities. Rik recently distributed an agenda that includes a discussion of 1) communications, 2) action levels, and 3) potential activities above the cliffs to minimize the impact on the tidal pools.

Ratify May 10, 2012 Conference Call Summary

No comments or revisions were offered during the conference call and the ATCAT ratified the May 10, 2012 conference call summary (ver 1), as written.

Letter of Determination Follow-Up Activities

Rik Williams noted that Chevron collected additional soil-gas samples last week as requested in the Letter of Determination. Lous Cappel advised that the results should be available in a couple weeks with the report to follow. Rik anticipates submitting the information by the end of July or early August.

Pre-Feasibility Report Activities

On May 16, 2012 Jennifer Holder distributed an updated schedule for the preparation of the Pre-Feasibility Report with an anticipated distribution date of the beginning of October. She continues to plan on that date; however, it is possible that the timeline could slip slightly due to the additional soil-gas sampling and the activities in the intertidal area.

Robert Van Hying confirmed that they are reorganizing the ARARs into two tables; 1) Federal and 2) State/County/Local. He noted that they were running behind the anticipated distribution schedule because of the unanticipated work in the intertidal area. He anticipates distribution of the revised ARARs tables in approximately one month.

Status of Site Conceptual Model

Rik Williams and Robert Van Hying advised that they plan to submit the Site Conceptual Model to the RWQCB and distribute it to the ATCAT by the end of this week. Rik then reviewed the status of the various site activities:

- **LNAPL Study** – RWQCB is preparing a No Objection draft Letter on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test and will be sending it to Chevron for their review this week.
- **Cliff Area Study** – RWQCB is preparing a No Objection draft Letter on the Report of Findings for the Supplemental Cliff Area Characterization and will be sending it to Chevron for their review this week.
- **Cursory LNAPL Brainstorm** - A follow-up to the Brainstorming session on May 2nd has been delayed due to the activity in the Cliff Area's intertidal zone pool. They hope to re-engage in mid July.
- **Monitoring and Report Plan (MRP)** - Several intertidal zone monitoring points were established on May 8th in preparation for a update to the Monitoring and Report Plan (MRP) draft that was to be shared with Dan Niles. However, activity in the Cliff Area's intertidal zone pool had delayed the meeting to review and finalize a new MRP to the end of July.
- **Cliff Area Intertidal Zone** – Chevron reviewed the Technical Workplan for the Intertidal Zone Assessment with Dan Niles. This included sampling protocols and getting more viable fluids at each sample point to conduct additional analytical analysis requested by CDFG and RWQCB.
- **Path Forward** – Rik noted that many of the activities, previously planned to be completed in May, were deferred to mid or late July due to the activity in the Cliff Area's intertidal zone pool.
 - Continue to conduct the planned observations and sampling events in the Cliff Area's intertidal zone through early August.
 - Lab Reports and cursory summaries will be sent to the ATCAT members as they become available.
 - A full analysis of all of the laboratory data will be developed and a draft prepared for comment by the end of August or early September.
 - Set up the next ATCAT meeting to be face-to-face to review the SCM draft for late-July.

- Calculate volumetric estimates of the 4 agreed upon areas - Loading Rack-Pump house, Refinery, Pipeline Corridors and Cliff Area (may take 2 weeks)
- Generate graphics and table to facilitate the LNAPL discussions (may take 2 to 3 weeks).
- Set up another brain storming session to identify potential LNAPL alternatives in each of the 4 areas by mid to late July.
- Set up a management meeting with RWQCB and Chevron supervisors to review for late July.

Dan Niles emphasized the importance of preparing a clear timeline that memorializes the response to the discovery of hydrocarbons in the intertidal zone area.

Compendium of Site Information and History

Chuck Anders noted that no comments on the compendium of site information have been received so far. Dan Niles indicated that Andy Mutziger suggested that he, Dan and Aaron LaBarre discuss their observations before they responded with comments, if any. The ATCAT conference call participants offered no other suggestions or observations. Chuck Anders encouraged ATCAT participants to review the site information, if they haven't already done so, and provide comments to Robert Van Hying before the next ATCAT meeting.

Action Items and Path Forward

The ATCAT participants agreed to hold July 31st and August 6th as tentative dates for an ATCAT meeting in San Luis Obispo (9:30 AM – 3:00 PM). The primary purpose of the meeting will be to review the draft Site Conceptual Model.

| Status | Action Item |
|----------------|--|
| Due June 26 | 1) Chevron will distribute the Site Conceptual Model to the ATCAT. |
| Due July 23 | 2) Robert Van Hying will distribute the revised ARARs table to the full ATCAT. |
| Due July 27 | 3) ATCAT members will review the Compendium of Site Information and provide comments before the next ATCAT meeting. Andy Mutziger, Dan Niles and Aaron LaBarre will discuss their observations before submitting comments. |
| Pending | 4) Jennifer Holder will "crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (if appropriate after Pre-Feasibility Report outline is prepared.) |
| Pending | 5) Jennifer Holder will prepare a Response to Comments to the draft Risk Management Plan (RMP) ver. 1.1 (or suggest an alternative strategy to address comments) within 4 weeks after receiving the preliminary Agency determination letter. |

Upcoming Meeting Dates and Agenda Items

ATCAT Meeting, San Luis Obispo – Tentative dates: July 31 and August 6, 2012 (9:30 AM – 3:30 PM)

1. Safety Moment
2. Review and Ratify the June 25, 2012 Draft Conference Call Summary
3. Review/Discuss the Draft Site Conceptual Model
4. Review Comments on the Compendium of Site Information, if any.
5. Action Items / Path Forward

Avila Tank Farm Collaborative Assessment Team

Meeting Summary

Date: August 6, 2012

Time: 9:30 AM – 2:00 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------|------------------------------------|------------------|----------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Andy Mutziger | APCD |
| Melissa Boggs | CDFG | Dan Niles | RWQCB |
| Teri Copeland | Consultant to Environmental Health | Debbie Rudd | RRM Design |
| Regina Donohoe | CDFG | Kim Tulledge | Chevron |
| Jennifer Holder | ERM | Robert Van Hying | Avocet Environmental |
| Ryan Hostetter | SLO County Planning & Bldg. | George Weber | ERM |
| Aaron LaBarre | Environmental Health | Rik Williams | Chevron |

Announcements

Suzanne Parker has left Chevron to work for PG&E. Chevron has appointed an interim Policy Government and Public Affairs representative, Juliet Don.

Safety Moment

Rik Williams reminded everyone that school will be starting up soon so everyone needs to be aware when driving. Also when playing sports in the heat, parents need to be aware of heat-related issues, keep their kids hydrated and watch for other health issues that can be affected by heat, such as asthma.

Meeting Summary Review/Ratification

The draft meeting summary from the 6/25/12 ATCAT conference call, version 2 was reviewed and ratified, as written.

Status of Intertidal Zone Activities

Rik Williams noted that the last summer sampling event (interstitial and air) was completed last week. Negative tides, which are required for sampling, will not appear again until October. The air data should be available this week. VOC data should be available next week, but the lab is taking about three weeks to turn around the water/sediment data. The 7/6 sampling data was just released, as was the VOC data from the 7/20 sampling event. The intertidal area is now covered with about two feet of sand.

Chevron will prepare a compilation of all data with anticipated distribution at the end of September. The compilation will include a Field Summary report with field notes and QC'd data. (Teri Copeland Comment: I have in my notes that a human health evaluation will be issued in early October.)

Melissa Boggs presented information regarding the mussel sampling conducted by CDFG. She reported that the mussel sample data was distributed to the ATCAT and that Melissa and Regina Donohoe are preparing a summary report of the mussel study. Mussel sampling included three composite samples at the site and a control sample at Montana de Oro. Regina reviewed the

tissue data and determined that results were below toxicity benchmarks for mussels. OEHHA's Susan Klasing did a human health evaluation and concluded the benzo[a]pyrene equivalent concentration reported in the Avila Beach mussel samples were not considered to pose a significant human health risk.

Jennifer Holder and Chuck Lambert presented a summary of the proposed approach for risk evaluation included in the draft Intertidal Zone Action Level memo, dated August 2, 2012, recently provided to the Agencies.

The proposed Action Levels (ALs) were developed for compounds of potential concern (COPCs), defined as the organics detected in surface water or sediment in the tidal area in May and June of 2012, or in groundwater from monitoring wells B-230 and B-231 in 2011.

Exceedance of these ALs does not indicate that a health risk exists – but rather that additional evaluation is warranted, which could include: additional monitoring; control of human exposure; source mitigation; and/or additional risk assessment.

Human health ALs for long-term exposure to water and sediment in the Tidal Area were developed using health protective assumptions consistent with previous agency reviewed assessments (Tidal Area sHHRA 2012; Cliff Spring Action Levels 2010). Equations used by the USEPA in the development of Human Health Benchmarks for Chemicals in Water and the USEPA Regional Screening Levels. Air screening action levels were developed separately and rely on comparison to area background concentrations as well as California OEHHA chronic reference exposure levels.

Ecological risk-based ALs were developed for receptors potentially exposed to intertidal water for aquatic life (e.g., fish or aquatic invertebrates, such as mussels or crabs) and sediment exposure for benthic invertebrates (e.g., clams and worms) were developed. Available literature and recent studies were used to identify available action levels that were relevant to the COPCs and exposures at Avila. USEPA screening levels protective of aquatic life for use in the Deep Water Horizon (DWH) oil spill were deemed relevant. When a DWH benchmark was not available, it was calculated using the same approach. The DWH screening levels are based on the target lipid narcosis model (TLM) and the equilibrium partitioning (EqP) approach (USEPA 2003, 2008).

Regina expressed concern about using DWH screening levels. Melissa and Regina will work with Jennifer and Chuck to determine the path forward (how best to determine exposure scenarios and present the evaluation/conclusions).

Jennifer would like comments on the draft memorandum that was recently distributed. It was agreed that written comments on the draft Intertidal Zone Action Level Memo would be submitted by September 5th. An Agency conference call was scheduled for August 30th from 1:00 - 2:00 PM to discuss the draft. Melissa Boggs will take the lead to coordinate with other agencies. Rik Williams suggested that we also begin thinking about how to share this information with the public. (Teri Copeland Comment: I have in my notes that Jennifer proposed a screening risk assessment be done to incorporate the action levels (human health and eco) and mussel data.)

(Note - Intertidal Zone issues were further discussed in the Pre-Feasibility Report portion of the ATCAT meeting.)

Status of Site Development Plan

Debbie Rudd reviewed portions of the "Vision Package" (to be used to brief stakeholders) for the site development.

Chevron anticipates calling the development "Avila Point." There is currently no developer for the project; however, Chevron has retained an architectural firm that specializes in resort development to represent developer considerations. Chevron plans to take the project

through entitlements (the EIR process and the County/Coastal Commission amendments to the Specific Plan and Local Coastal Plan). Chevron will complete the remediation, rough grading and install utility services for development prior to actual construction.

The proposed site development will include a resort with a hotel/meeting rooms/restaurant and fractional ownership cottages (no full-time residential). The “point” will be left undeveloped. A Coastal Trail will be established from one end of the site to the other along the bluff. Chevron will process architectural design guidelines during the entitlement process; the specific architectural design will be determined/processed by the developer. A strong theme for the site is “A future based on sustainability” emphasizing preservation and restoration of natural habitat. Currently they anticipate over 50% open space, and over 24% new resort landscaping.

The pre-application meeting was held with the County. The issues identified during the meeting included access, emergency evacuation around Avila, traffic and water/sewer. Chevron plans to file a preliminary application with the County in September and a full application in the 1st quarter of 2013. The County will solicit proposals for an EIR consultant once they receive the preliminary application. The EIR consultant will handle the EIR for the entire project through build out.

Some information, such as the Remedial Action Plan (RAP), will be submitted later as soon as it is available. Chevron still needs to determine the wetland approach. Letters were sent to ABCSD and SMMWC requesting service for the project. Chevron plans to have a community open house in the fall.

Draft Site Conceptual Model

Rik Williams indicated that Chevron submitted a draft Site Conceptual Model (SCM) to the RWQCB in June. They have had two follow-up meetings since that time.

Robert Van Hying noted that the purpose of the SCM is to:

- Document the physical characteristics of the site, including the nature, extent and mobility of site contaminants,
- Develop consensus with regulatory agencies (anticipate ratification of the SCM by the ATCAT), and
- Clearly identify issues for the Feasibility Study (FS).

Robert noted that the current draft of the SCM does not explicitly address the intertidal zone. A decision to wrap the intertidal zone into the FS will be made later this year and will be based on the urgency to address the discharge in the intertidal area. The decision will be based on the physical conditions (odor, cover, discharge, etc.) and the implementation of interim actions. Melissa Boggs noted that we have only observed the intertidal zone without sand cover for approximately one week and she would like to see the intertidal area in its scoured condition again next winter, in addition to evaluating existing intertidal data, as we continue to evaluate the urgency.

Chevron is preparing an Interim Action Plan for the intertidal zone. Initial actions will involve bailing from existing wells, which will begin immediately. Chevron also intends to conduct a pilot study to determine the feasibility of full-scale vapor extraction and dewatering, which will require permitting through the County and other agencies prior to implementation. Chevron will distribute the Interim Action Plan in the next few weeks. The agencies will review and turn around comments as soon as possible. Chevron will implement the plan in September if the agencies have no major issues with the proposed actions.

Robert Van Hying presented an overview of the Site Conceptual Model focusing on the areas that will be carried forward into the Pre-Feasibility Report and FS.

Robert noted that crude oil was main product stored onsite. There were 3 – 4 tanks with refined petroleum. Two tanks along the cliff were used for “slops” and raw gasoline from the

onsite refinery. The slop tank was removed in the 50's, prior to the use of oxygenates and Chevron is still investigating why oxygenates are present in the groundwater in this area. Tank 201104 is being addressed. The releases are localized and include dissolved phase BTEX and TBA.

The LNAPL onsite is viscous, located in fractured rock, immobile, and difficult to recover. The LNAPL increases in monitoring wells as the groundwater level decreases due to drought, etc. There is LNAPL beneath four areas: pump house and loading rack, refinery, principal pipeline corridors; and tanks sites.

Dissolved phase TPH is in groundwater around the LNAPL. It appears to be stable and undergoing active natural attenuation.

Chevron has been using a conservative "cliff retreat" line (where the cliff could potentially erode into the ocean in the next 75 years) for its current analyses of future development and remediation areas. Chevron is getting a more detailed analysis of the cliff retreat line for remediation considerations. The cliff erosion is not necessarily a SCM issue, but is a major consideration for the Pre-Feasibility Report and FS.

Issues to carry forward for the SCM are:

- Groundwater as a general operable unit
- LNAPL
- TPH and groundwater impacts in cliff erosion zone
- Methane in soil gas
- Impacts at and around Well B-223
- Impacts at and around Well B-230

No missing elements were identified at the meeting. The ATCAT representatives will review and comment on the SCM. Dan Niles will coordinate the agency review/comments and will provide the proposed timeline for this effort to the ATCAT by August 15th.

Pre-Feasibility Report Activities

Jennifer Holder noted that Chevron anticipates issuing a draft Pre-Feasibility Report by the beginning of November, assuming timely resolution on the CSM and no surprises (intertidal, etc.). Regina Donohoe expressed her preference to have the intertidal zone document as an appendix to the Pre-Feasibility Report since other agencies, not participating in the ATCAT, may be reviewing the intertidal zone information. Robert Van Hyning and Jennifer recommended that we not delay the preparation of the Pre-Feasibility Report in order to include the intertidal zone report and that we should include a summary of the current status if it is not complete). It was agreed that it would be desirable to include the intertidal zone information in the Pre-Feasibility Report as an appendix. If it is not complete, a summary of the status should be included in the Pre-Feasibility Report.

Melissa Boggs will coordinate with the Agencies to determine the path forward to address the intertidal zone issues and incorporate the intertidal zone data (sediment and surface water) into the Pre-Feasibility Study. Melissa will coordinate an agency-only conference call on August 30th from 1:00 – 2:30 PM. The agency group will provide written comments on the Action Level Memo by September 5th. Jennifer Holder will distribute a Word version of the Action Level Memo to facilitate the agency review/comments. Chuck Lambert will check on the feasibility of providing the action levels spreadsheets with calculations at the request of Teri Copeland and Aaron LaBarre.

Aaron LaBarre noted that the EHS role in the intertidal zone activities is to determine whether there is a risk that requires a public notice. He observed that the action level memo is very helpful. EHS has reviewed the risk assessment and subsequent data, conducted appropriate analysis and

concluded that the risk was not significant. His directive is to participate in the intertidal zone group to monitor activities and data.

Robert Van Hying briefly discussed the status of the revised draft ARARs. He noted that that the agencies have provided their input and it was agreed that no additional review is necessary until the ARARs are presented in the Pre-Feasibility Report.

Compendium of Site Information and History

Andy Mutziger coordinated with EHS and RWQCB to identify a list of additional documents that they would like to have included in the compendium of site information. It was agreed that each agency would provide additional documents that they would like to be included in the compendium. It was noted that the meeting summaries, which capture comments from the ATCAT participants and documents the process, should also be included. Robert will work with Chuck Anders and George Weber to get the ATCAT meeting minutes and post them to the website.

Action Items and Path Forward

The ATCAT participants agreed to hold November 8th as tentative date for the next ATCAT meeting in San Luis Obispo (9:30 AM – 3:00 PM). The primary purpose of the meeting will be to review the Interim Remediation Actions.

| Status | Action Items |
|-----------------------------------|--|
| Intertidal Zone Activities | |
| Due August 10 | 1) Chuck Lambert will send Aaron LaBarre and Teri Copeland the intertidal zone action level spreadsheets with calculations. |
| Due August 10 | 2) Jennifer Holder will distribute Word version of Action Level Memo for easier review. |
| Due August 27 | 3) Chevron will distribute the Interim Remedial Action Plan for review. |
| August 30 (1:00–2:30) | 4) Melissa Boggs will coordinate an Agency conference call to review the Intertidal Zone Action Level Memo and a develop path forward to pull together data on intertidal zone activities. (Melissa will set up the conference call.) |
| August 31 (10:00-12:00) | 5) ATCAT conference call to discuss the Interim Remedial Action Plan. (Kim Tullledge will set up the conference call and send notification.) |
| Due September 5 | 6) Agencies submit comments on the Intertidal Zone Action Level Memo. (To be discussed during the Agency conference call on August 30.) |
| Due September 5 | 7) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. |
| September 10 (10:00–12:00) | 8) ATCAT conference call to discuss and report out 1) Review Intertidal Zone Action Level memo, 2) Agency strategies to pull together data on intertidal zone activities/path forward, 3) inclusion of intertidal data in Pre-Feasibility Report and 4) need for October conference call. (Kim Tullledge will set up the conference call and send notification.) |
| Due September 30 | 9) Chevron prepare and distribute report of intertidal zone sampling/analytical data |
| Site Conceptual Model | |

| | |
|--|---|
| Due August 15 | 10) Dan Niles will coordinate agency comments on SCM and distribute a timeline of when agency comments will be completed. |
| Pre-Feasibility Report and FS | |
| Due Early November | 11) Jennifer Holder will distribute the draft Pre-Feasibility Report for review. |
| Other Pending Items/Activities – not discussed at the meeting | |
| | <ul style="list-style-type: none"> ▪ Prepare a Response to Comments to the draft Risk Management Plan (RMP) ver. 1.1 or suggest an alternative strategy to address comments (Jennifer Holder) - within 4 weeks after receiving the preliminary Agency determination letter. ▪ "Crystallize" summary table 3-1 of the draft RMP to memorialize conclusions to date (Jennifer Holder) - if appropriate after Pre-Feasibility Report outline is prepared. ▪ Draft No Objection letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) – In progress. ▪ Draft No Objection letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization – (Dan Niles) In progress. ▪ LNAPL brainstorm session follow up, first generate graphics and table (Rik Williams) – Deferred pending outcome of sampling efforts in Avila Cliff Intertidal Zone Area. ▪ Monitoring and Report Plan changes. (Rik Williams) Deferred pending the conclusion of sampling activities in the Avila Cliff Intertidal Zone Area. ▪ Volumetric estimates of the loading rack/pump house, refinery, pipeline corridors and cliff area. (Rik Williams) In progress. ▪ RWQCB requested preparation of a timeline to memorialize response to the discovery of hydrocarbons in the intertidal area (Rik Williams?) In progress. |

Upcoming Meeting Dates and Agenda Items

Agency Conference Call – August 30 (1:00 – 2:30 PM)

1. Discuss the Intertidal Zone Action Level Memo and develop path forward to pull together data on intertidal zone activities. (Melissa will set up the conference call.)

ATCAT Conference Call – August 31 (10:00 AM – 12:00 PM)

1. Safety Moment
2. Review/Ratify of 8/6/12 Meeting Summary
3. Review Interim Remedial Action Plan
4. Discuss Agency strategies to pull together data on intertidal zone activities/path forward (optional)
5. Action Items

ATCAT Conference Call – September 10 (10:00 AM – 12:00 PM)

1. Safety Moment
2. Review/Ratify 8/31/12 Conference Call Summary
3. Intertidal Zone Action Level memo
4. Agency strategies to pull together data on intertidal zone activities/path forward
5. Inclusion of intertidal data in Pre-Feasibility Report
6. Need for October conference call
7. Action Items

ATCAT Meeting, San Luis Obispo – November 8 (9:30 AM – 3:00 PM)

1. Safety Moment
2. Review/Ratify 9/10/12 Conference Call Summary
3. Pre-Feasibility Report
4. Remaining Intertidal Zone Items/Issues
5. Interim Remedial Action Plan
6. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: November 8, 2012

Time: 9:30 AM – 11:10 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|------------------|----------------------|
| Bill Almas | Chevron | Aaron LaBarre | EHS |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs | CDFG | Andy Mutziger | APCD |
| Louis Cappel | Padre Associates | Dan Niles | RWQCB |
| Teri Copeland | Consultant to EHS | Debbie Rudd | RRM Design |
| Juliet Don | Chevron | Kim Tulledge | Chevron |
| Regina Donohoe | CDFG | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ERM | George Weber | ERM |
| Ryan Hostetter | SLO County Planning | Dave Whitney | APCD |
| Tim Hunt | Avocet Environmental | Rik Williams | Chevron |

Safety Moment

Rik Williams reminded everyone to drive with caution in rainy conditions. This is the second rain of the season and it's time to make sure your vehicles are ready for the winter season.

Ratify 9/10/12 and 9/25/12 Conference Call Summaries

Melissa Boggs recently distributed suggested revisions; therefore the review period was extended to close of business on November 12. The meeting summaries as amended by Melissa will be considered ratified if no significant additional comments are received. A revised draft will be redistributed for review if significant comments are submitted.

Avila Point Open House (11/8/12)

Rik Williams announced that Chevron will be hosting an open house at the Avila Beach Community Center this evening at 7:00 PM. Debbie Rudd noted that they will meet one-half hour before the meeting to coordinate meeting activities. Nametags will only be provided to key speakers and technical resources. Others will need to sign in and make their own nametag. Agency personnel do not need to fill out public agency meal paper work if not eating any refreshments provided by Chevron. Debbie noted that the public will be able to provide feedback with comment cards, flip-charts at individual information stations and through a project web-site that will be up early next week. The URL is www.avilapoint.com. Rik will send out an email to the ATCAT when the web site is operational.

An overview of the proposed project will be presented at the beginning of the meeting. Topical information stations will be staffed with subject experts to answer specific questions and receive comments. No fact sheets will be distributed at the meeting since information will be posted on the web site.

Bill Almas noted that Chevron wants to provide the community with project information and the opportunity to ask questions before they submit a pre-application to County Planning, which triggers an “email blast” to interested parties. Debbie Rudd explained that they have met with numerous community stakeholders prior to the meeting. The primary concerns from the interviews were about the potential for contamination migrating to the community and when remediation would begin. Chevron doesn’t expect to be in front of the Board of Supervisors for final approval until 2015. She emphasized that the focus of the meeting will be the concept plan.

Melissa Boggs asked if her comments regarding the impact to the ecosystem were included in the relevant flip charts. Rik noted that Melissa’s comments were included. Ryan Hostetter indicated that she will be attending and will be available for questions.

Bill Almas noted that Chevron will be making a second request for water service to the Avila Beach CSD next week.

Update on the Intertidal Zone Action Level Memo (Intertidal Zone Notification Plan)

Rik Williams noted that Chevron met with Dan Niles to clarify agency expectations and have prepared a revised draft. As a result of the discussions, they have rebranded the Intertidal Zone Action Level Memo as the Intertidal Zone Notification Plan, which better describes its purpose. Chevron is conducting an internal review of the draft document and anticipates distributing the draft notification plan early to mid December. Jennifer Holder observed that the plan will include an appendix for each agency that discusses the individual Agency objectives and requirements. Chevron will distribute the draft appendices around Thanksgiving.

Jennifer explained that based on feedback from Dan and other Agencies there was confusion about the objectives and purpose of the action levels. The Agencies were looking for an easily way to evaluate and screen the monitoring data against conservative thresholds to trigger agency notification, resulting in changing the name of the document.

Jennifer further explained that they will review all Agency benchmarks and take the lowest value for each constituent to define the value that triggers notification. If the most conservative benchmark is exceeded, they would notify all four Agencies. It would be up to the individual Agencies to decide how to proceed. This is a much more simplified and straightforward approach and they will include a simple flowchart to illustrate the process.

The document will be relatively short and the appendices will provide a more detailed discussion of the benchmarks. Dan Niles and Melissa Boggs observed that this was a good approach. Aaron LaBarre added that it was important to EHS to determine when a public notification would be required. Jennifer reiterated that the notification threshold will be the lowest of all of the possible benchmarks and it will be up to Agencies to determine how it applies to them.

Update on the Intertidal Zone Observation Monitoring Plan and Sampling since the Beach Area has been Scoured

Louis Cappel reviewed the recent monitoring activities in the intertidal zone. He noted that two sampling events were recently conducted on October 15 and October 16, 2012. He reported that the intertidal area was partially scoured in the middle of October and that the odor and sheen had not materially changed from previous observations, except that the sheen area was slightly smaller. Samples were analyzed from both sampling events. The results from the first sampling event were similar to previous samples; however, the results from the second sampling event were significantly lower. The next observation monitoring events are scheduled for November 12 & 13 and again on

December 10, 11 & 12. Sampling during the scheduled events are dependent on beach scour, as well as the presence of sheen. Louis is waiting on the full laboratory report and will distribute the results when received. Louis will keep the ATCAT informed on the sampling schedule. Dan Niles asked if there were many people on the beach when they were sampling. Louis noted that there were a couple people and they didn't ask any questions.

Status of Interim Remedial Action Plan and Associated Activities

- **Liquid Recovery from Bailing**

Louis Cappel reported that they observed approximately 0.5 feet of LNPL in well B-230 when preparing for the liquid recovery tests. Because of the presence of the LNPL in well B-230, they switched that well to an extraction well and placed the transducer in well B-231. Louis noted that they have recovered approximately 0.3 gallon of LNPL from well B- 230 over the past month and the level of LNPL has not recovered to the initial thickness of 0.5 feet. When dewatering well B-230 the well recharged to quickly to conduct the liquid recovery test, so they are now focused on implementing the vapor extraction pilot test. Melissa Boggs questioned whether automated bailing was feasible. Louis noted that the workplan states that they would use a pump if the manual bailing didn't work; however, the 2-inch diameter well is too small to accommodate both the pump and SVE equipment at the same time. Robert Van Hyning added that they will discuss additional remedial actions and present an amended plan on dewatering strategies after the open house.

- **Soil Vapor Extraction Set Up**

Robert Van Hyning informed the group that Chevron has submitted an application to APCD for the vapor extraction system and they should have equipment out on the site soon. He will distribute additional information as soon as it becomes available.

Updates on the Following Studies:

- **Sampling Data Report from the Four Summer Sampling Events**

Louis Cappel is preparing a report on sampling activities, including a third-party data evaluation that should be completed by the end of November. He anticipates distribution of the report in the first week of December.

- **Site Conceptual Model**

Rik Williams anticipates distribution of the draft SCM before or after Thanksgiving

- **Pre-Feasibility Study**

Rik Williams indicated that the target date to distribute the draft Pre-Feasibility Study is before the end of December. He would prefer to distribute the document one to two weeks prior to a face-to-face ATCAT meeting where the document would be discussed. He would like to get comments from agencies about one month after meeting. We would then have a second face-to-face meeting to discuss comments and response. Bill Almas noted that it will be a rather long document with numerous appendices. Jennifer Holder added that the Pre-Feasibility Study will likely be the first few chapters of the FS. It was agreed that the draft Pre-Feasibility Study would be available for download from the compendium of documents (FTP site) and also distributed to Agencies as a hard copy with CD if they preferred.

- **HHRA Addendum**

Chuck Lambert announced that they distributed an addendum to the supplemental HHRA yesterday. The document was revised because some of the development bubbles had changed size and additional soil-gas and soil data was included. The same spreadsheets and assumptions were used and the results are very similar. Jennifer added that they will also be

updating the eco risk assessment for the eco analysis and remediation baseline where there is no development. Regina Donohoe questioned whether the Pre-Feasibility Study would be based on the new HHRA results. Jennifer confirmed that the draft Pre-Feasibility Study will include the updated data and will be consistent with the HHRA Addendum. Jennifer noted that the review timeline for the HHRA Addendum will be the same as the Pre-Feasibility Study so they will not be able to include any Agency revisions to the HHRA Addendum in the initial draft of the Pre-Feasibility Study.

It was agreed that Agency comments on the HHRA Addendum would be completed by December 3rd. Agencies will work directly with Chuck Lambert and Jennifer Holder to resolve questions and issues. Aaron LaBarre will review the EHS schedule to determine when they can provide comments. Andy Mutziger asked if the Addendum was distributed in track-changes mode. Chuck Lambert indicated that the only elements that changed were the bubble size and risk tables. There is a table in the back of the document that discusses the changes.

Schedule and Action Items

The next face-to-face meeting of the ATCAT will be held on Tuesday, January 15, 2013 from 9:30 AM – 3:00 PM. The focus of the meeting will be discussion of the draft Pre-Feasibility study. The ATCAT also scheduled time for a tentative conference call on Thursday, December 13, 2012 from 1:00 – 3:00 PM, if needed. The participants reviewed the action item table in the September 25th draft meeting summary. The following table presents the updated status of activities.

| Schedule | Action Items | Status/Comments |
|-----------------------------------|--|--|
| Intertidal Zone Activities | | |
| Early - Mid December | 1) Chevron will prepare a revised Action Level Memo Intertidal Zone Notification Plan for review and comment, including objectives and a discussion of data quality issues and methodology. | Chevron will distribute draft appendices discussing Agency requirements around Thanksgiving. |
| Ongoing | 2) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | Ongoing – Melissa recently received OEHHA review. |
| Early December | 3) Chevron will prepare and distribute a report of intertidal zone sampling/analytical data. | Louis will keep the ATCAT informed of the upcoming sampling schedule. |
| TBD | 4) Chevron will prepare an amended plan on dewatering strategies. | Prepare plan after Open House. |
| TBD | 5) Chevron will distribute the SVE monitoring plan / information. | |
| Site Conceptual Model | | |
| Before or After Thanksgiving | 6) Chevron will distribute the SCM to the ATCAT for review and comment | |
| HHRA Addendum | | |

Drafted by Strategic Initiatives based on the November 8, 2012 ATCAT conference call. Reviewed and ratified during the December 13, 2012 ATCAT conference call.

| | | |
|---------------------------------------|---|--|
| December 3 | 7) Agencies will submit comments on the draft HHRA Addendum. | Aaron LaBarre will review the EHS schedule and determine when they can provide comments. |
| Pre-Feasibility Study | | |
| End of December | 8) Jennifer Holder will distribute the draft Pre-Feasibility Study for review. | |
| Other Pending Items/Activities | | |
| | Draft No Objection letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) | In progress. |
| | Draft No Objection letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization (Dan Niles) | In Progress. |
| | LNAPL brainstorm session follow up, first generate graphics and table Deferred pending outcome of sampling efforts in Avila Cliff Intertidal Zone Area (Rik Williams) | In Progress. |
| | Monitoring and Report Plan changes. Deferred pending the conclusion of sampling activities in the Avila Cliff Intertidal Zone Area. (Rik Williams) | In Progress. |
| | Volumetric estimates of the loading rack/pump house, refinery, pipeline corridors and cliff area. (Rik Williams) | In progress. Anticipate completion by November 30. |
| | RWQCB requested preparation of a timeline to memorialize response to the discovery of hydrocarbons in the intertidal area (Rik Williams?) | In progress. Anticipate completion by November 30. |

Upcoming Meeting Dates and Agenda Items

ATCAT Conference Call (tentative) – December 13 (1:00 – 3:00 PM)

1. Safety Moment
2. Review/Ratify 11/8/12 Conference Call Summary
3. HHRA Addendum

Drafted by Strategic Initiatives based on the November 8, 2012 ATCAT conference call. Reviewed and ratified during the December 13, 2012 ATCAT conference call.

- Agency Comments
- Questions / Discussion
- 4. Intertidal Zone Issues and Activities
 - Draft Intertidal Zone Notification Plan and Appendices
 - Sampling/Analytical Report
 - Interim Remedial Action Plan
 - a. SVE Activities
 - b. Alternative Dewatering Test Strategies
- 5. Site Conceptual Model
- 6. Status of Pre-Feasibility Report
- 7. Action Items/Path Forward

ATCAT Meeting, San Luis Obispo – January 15, 2013 (9:30 AM – 3:00 PM)

1. Safety Moment
2. Review/Ratify 12/13/12 Conference Call Summary
3. Review/Discuss Pre-Feasibility Report
4. Remaining Intertidal Zone Items/Issues
5. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Meeting Summary

Date: January 15, 2013

Time: 9:30 AM – 1:40 PM

Location: RRM Design, 3765 S. Higuera St., # 102, San Luis Obispo

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|-------------------|----------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Andy Mutziger | APCD |
| Melissa Boggs | CDFW | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Jaydeep Purandare | Avocet Environmental |
| Teri Copeland | Consultant to EHS | Debbie Rudd | RRM Design |
| Juliet Don | Chevron | Kim Tullledge | Chevron |
| Regina Donohoe | CDFW | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ERM | George Weber | ERM |
| Aaron LaBarre | EHS | Rik Williams | Chevron |

Announcements

Regina Donohoe announced that recent legislation changed the name of the California Department of Fish and Game (CDFG) to the California Department of Fish and Wildlife (CDFW). The transition will take place over time due to budget limitations.

Safety Moment

Rik Williams shared a recent experience at the Avila Beach Scout House where rodents had damaged electrical wiring in the building. The wiring was immediately repaired and returned to service. Rik recommended that buildings be inspected periodically for water damage and infestation since damage to electrical systems could cause a fire hazard.

12/13/12 Conference Call Summary

The ATCAT ratified the December 13, 2012 ATCAT Draft Conference Call Summary ver1 with Melissa Boggs edits.

Status of HHRA Addendum

Chuck Lambert noted that the HHRA Addendum was currently under review by EHS. The HHRA addendum was necessary because of additional soil gas sampling requested by SLO County Health in areas where the DQA indicated that additional sampling would increase the statistical certainty associated with the calculated risks. The development areas also changed as did some of the potential exposure scenarios. All of these factors necessitated recalculating the risks associated with the final development scenario.

Status of Intertidal Zone Action Issues and Activities

▪ **Draft Intertidal Zone Notification Plan and Appendices**

Jennifer Holder provided an overview of the draft notification plan that was distributed in December. She emphasized that the purpose of the document was to identify an agreed upon threshold that would trigger agency notification. She noted that the threshold levels were developed independently for each agency and then pooled together to identify the lowest level for notification purposes. Dan Niles and other Agency representatives confirmed that the draft plan met their notification objectives. Regina Donohoe added that it was CDFW's standard practice to review all data when received.

Regina raised questions regarding some constituents that had no ecological thresholds and suggested that the literature be further reviewed to identify thresholds and/or a process be specified for reporting detections of these compounds. She also questioned how cumulative effects of constituents were handled. Chuck Lambert noted that the human health cumulative effects methodology was included as an attachment. Regina added that the CDFW typically looks at the "mixture toxicity" in addition to individual thresholds.

Melissa Boggs expressed concern that the observation of a sheen be included as a threshold in the notification plan since it may not always be captured in the analytical data. She noted that the observation of a sheen requires reporting under some statutes. Dan Niles agreed that the observation of a sheen should be included in the notification plan. Louis Cappel suggested clarifying sheen reporting in the intertidal zone observation and monitoring plan. The current practice is to immediately take and analyze water samples if a sheen is observed. Louis and Melissa are currently working with the CDFW laboratory to further characterize the sheen and its potential sources.

Regina noted that the notification plan is based on constituents that have been observed to date. The plan needs to include a process on how to address new constituents that may be detected in the future.

Melissa observed that there are many domestic dogs on the beach, particularly in the early morning. She raised concern for dogs that may be exposed to the tide pools.

Agency representatives agreed to submit written comments on the draft notification plan by January 31, 2013. Aaron LaBarre will check the EHS schedule and notify Chuck Anders when they can submit comments by Wednesday.

▪ **Mussel Study**

Melissa Boggs indicated that the Mussel Study was still ongoing.

▪ **Sampling/Analytical Report**

Louis Cappel noted that they have completed two of the three planned winter tide pool sampling events. He will keep the ATCAT informed of activities and prepare an addendum to the sampling report after the third sampling event is complete.

Bill Almas requested that Melissa clarify the term "sheen." Melissa noted that regulations prohibit discharge of a sheen to a navigable waterway and also noted that she previously provided Louis a document that defines different types of sheen. Louis observed that it is assumed that the sheen is from hydrocarbons due to the proximity of a potential hydrocarbon source. However, it is important to clarify whether the sheen is actually caused by hydrocarbons or some other material.

▪ **Interim Remedial Action Plan**

○ **SVE Activities**

Louis informed the ATCAT that the SVE equipment has arrived on-site and the seven-day pilot test is scheduled to begin on January 17th. The SVE system will continue to operate until the multiphase pilot test begins or the system is deemed ineffective. Chevron will distribute the revised SVE Monitoring Plan to the ATCAT by January 25th.

- **Alternative Dewatering Test Strategies**

Robert received the minor use permit from the County to begin construction of a 6-inch diameter well for future dewatering and SVE use. Louis noted that they continue to bale the existing well and have recovered a total of 1/2 gallon light-brown liquid, which is lighter than water. The well continues to recharge very slowly.

Site Conceptual Model

Robert Van Hying views the SCM as an ongoing document. He will distribute information on how to access the FTP site by tomorrow. ATCAT members will provide written comments via email on the response to comments table by February 15th.

Rik Williams questioned whether the ATCAT intended to ratify the SCM. It was agreed that the ATCAT would ratify the SCM after comments were addressed.

Preliminary Application to the County

Debbie Rudd announced that Chevron has submitted the preliminary project application to County Planning and Building in order to get the EIR consultant onboard. Ryan Hostetter is now working on and RFP for an EIR consultant. Debbie anticipates having a consultant under contract by June.

Pre-Feasibility Study

Rik Williams provided an overview of how to download the Pre-Feasibility Study documents from the ERM FTP site. Jennifer Holder offered to provide hard copies of the document and 11x17 figures. Coordinate with George Weber to obtain any hard copies.

Jennifer provided an overview of the draft document and briefly reviewed the contents of each section. The document, which is basically the first few chapters of the Feasibility Study (FS), provides risk management recommendations, preliminary remedial action objectives, and a compendium of existing reports in the appendices. She noted that the land-use scenarios include the proposed development scenario and an open-space scenario. Each assumes that Chevron will conduct a baseline remediation regardless of whether the site is developed or not. The baseline remediation is not based on the risk assessments but on Chevron "legacy" criteria. It will provide a minimum of 4 feet of separation between the land surface and non-asphaltic TPH greater than 1,000 mg/kg. Jennifer noted that the Pre-Feasibility Study is designed so as not to lose sight of the risks, even if they will be addressed in the baseline remediation. Other risk management concerns, such as, water quality, methane, asphaltic materials in soils and coastal erosion are also be addressed.

Rik Williams noted that Chevron intends to begin work on the formal FS based on the current draft of the Pre-Feasibility Study. He anticipates filing with the County in approximately six months when the FS is complete.

Agencies participating in the ATCAT will evaluate whether they can provide comments in writing on the draft Pre-Feasibility Study by March 15th. A conference call was scheduled for February 1 from 10:00 AM – 11:00 AM to address questions, clarify issues and confirm the timeline for comments. A second conference call was scheduled for March 21st from 1:00 PM – 3:00 PM to discuss comments and determine a path forward.

Schedule and Action Items

The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 1/15/13)**

| Schedule | Action Items | Status/Comments |
|---------------------------------------|---|--|
| Intertidal Zone Activities | | |
| January 31st | 1) ATCAT Agency participants will provide written comments on the draft Intertidal Zone Notification Plan by 1/31/13. | Aaron LaBarre will advise Chuck Anders of the EHS schedule by 1/16/13. |
| Ongoing | 2) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | In Progress |
| | 3) Chevron will prepare and distribute an addendum to the report of intertidal zone sampling/analytical data after the third winter sampling event. | |
| TBD | 4) Chevron will prepare an amended plan on dewatering strategies. | Defer to 1 st quarter 2013. |
| January 25th | 5) Chevron will distribute the SVE monitoring plan / information by 1/25/13. | |
| Site Conceptual Model | | |
| February 15th | 6) ATCAT Agency participants will provide comments via email on the Response to Comments table by 2/15/13. | |
| HHRA Addendum | | |
| February 28 th | 7) EHS will provide comments on the draft HHRA Addendum by 2/28/13. | The date may change due to prioritization of SLO EHS resources per Chevron's direction. |
| Pre-Feasibility Study | | |
| March 15 th (Tentative) | 8) ATCAT Agency participants will provide written comments on the draft Pre-Feasibility Study by 3/15/13. | Agencies will assess whether 3/15 is a feasible date for comments and discuss during the 2/1/13 conference call. |

Drafted by Strategic Initiatives based on the January 15, 2013 ATCAT meeting. No additional comments or revisions were received after the February 1, 2013 ATCAT conference call; therefore, the January 15, 2013 meeting summary is considered ratified.

| Other Pending Items/Activities | | |
|---------------------------------------|--|---|
| | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) | In progress. |
| | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization (Dan Niles) | In progress. |
| Q1-2013 | LNAPL brainstorm session follow up, first generate graphics and table (Rik Williams) | Defer to Q1 2013 pending outcome of sampling efforts in Avila Cliff Intertidal Zone |
| Early Feb. | Monitoring and Report Plan changes. (Rik Williams) | Deferred pending the conclusion of sampling activities in the Avila Cliff Intertidal Zone Area. |
| Late Jan./Early Feb. | Volumetric estimates of the loading rack/pump house, refinery, pipeline corridors and cliff area. (Rik Williams) | In progress. |

ATCAT Conference Call – February 1, 2013 (10:00 AM – 11:00 AM)

1. Safety Moment
2. Review/Ratify 1/15/13 Meeting Summary
3. Review/Discuss Pre-Feasibility Report
4. Remaining Intertidal Zone Items/Issues
5. Site Conceptual Model
6. Action Items/Path Forward

ATCAT Conference Call – March 21, 2013 (1:00 PM – 3:00 PM)

1. Safety Moment
2. Review/Ratify 2/1/13 Conference Call Summary
3. Review/Discuss Pre-Feasibility Report Comments
4. Remaining Intertidal Zone Items/Issues
5. Site Conceptual Model
6. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: February 1, 2013
Time: 10:00 AM – 11:00 AM
Participants:

| Name | Organization | Name | Organization |
|-----------------|---------------------------|-------------------|----------------------|
| Chuck Anders | Strategic Initiatives | Andy Mutziger | APCD |
| Melissa Boggs | CDFW | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Jaydeep Purandare | Avocet Environmental |
| Jennifer Holder | ERM | Debbie Rudd | RRM Design |
| Aaron LaBarre | EHS | Kim Tulledge | Chevron |
| Chuck Lambert | McDaniel Lambert | Robert Van Hying | Avocet Environmental |
| Steve McMasters | SLO Building and Planning | Rik Williams | Chevron |

Safety Moment

Rik Williams discussed a vehicle accident involving a young man who was a participant in a soccer match he was officiating. Shortly after the match, the young man apparently hit a car when changing lanes and was killed. Rik reminded everyone to use their mirrors to check for traffic and physically turn to check the blind spots on either side of your vehicle when changing lanes.

1/5/13 Conference Call Summary

Debbie Rudd provided additional comments on version 2 of the draft meeting summary. Aaron LaBarre also clarified document review timelines for EHS. Chuck Anders will prepare a version 3 incorporating Debbie and Aaron's comments and distribute it to the ATCAT for review. If no substantive comments are received, version 3 of the meeting summary will be considered ratified.

Pre-Feasibility Report

The participants discussed the ability of the Agency representatives to meet the tentative March 15th timeline to submit comments on the draft Pre-Feasibility Report. Jennifer indicated that she had not received any comments to date. Andy, Dan and Melissa/Regina indicated that they could submit comments by March 15th. Steve indicated that SLO County Planning and Building will not be submitting comments. Aaron noted that he is relying on Chevron to establish priorities for EHS to review Avila Tank Farm and SLO Tank Farm risk assessments. Rik will discuss the priorities with Aaron and Chuck Lambert this afternoon and send Chuck Anders an email with the proposed EHS review timeline for the HHRA Addendum and Draft Pre-Feasibility Report by COB today. *(Note: on 2/6/13 Rik reported that EHS would provide comments on the Draft Pre-Feasibility Report and HHRA Addendum by 3/28/13.)*

No one had any additional questions of Jennifer regarding the draft Pre-Feasibility Report.

Site Conceptual Model

Rik noted that he had recently sent Dan corrected meeting notes and comment tables. Robert indicated that Dan had requested a track-changes version of the recent revisions to the SCM. Robert explained that the current version of the SCM on the web site includes a response to comments table for all of the agency comments that were originally submitted. Dan has some additional comments,

which will be incorporated into the next draft. Robert will provide Dan with a track-changes version of the SCM for his review by February 8th. He will work with Dan to make sure all his comments are addressed and upload the revised track-changes version of the SCM to the Avocet FTP site by February 15th. Agency representatives agreed that they could review the updated SCM and provide additional comments, if any, by March 1st. Aaron noted that he is committed to completing the review of the SCM and that his review of the SCM should not be impacted by the SLO Tank Farm priorities.

Status of Intertidal Zone Issues and Activities

▪ **Draft Intertidal Zone Notification Plan and Appendices**

Jennifer Holder noted that she received comments on the draft Intertidal Zone Notification Plan from EHS and emails from APCD and RWQCB stating that they had no additional comments. Melissa indicated that she has received Regina’s comments and will commit to integrating her comments with Regina’s and getting them to Jennifer by Monday (2/4/13). No one else indicated their intention to submit comments.

▪ **SVE Activities**

Robert explained that upon start-up of the SVE system they began pulling gas-range TPH at much higher concentrations than anticipated. They were able to get useful information from the test; however, the system was only able to operate a couple of hours before the carbon filtration system was overwhelmed and it had to be shut down. It appears that vapor was being pulled from a wide area and that SVE with thermal oxidation should be a viable remediation strategy. Robert noted that, based on discussions with RWQCB and APCD, it is important to complete the workplan and move forward with remediation. Robert is in the process of finishing the workplan and anticipates completion in 3-4 weeks.

Schedule and Action Items

The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 2/1/13)**

| Schedule | Action Items | Status/Comments |
|-----------------------------------|---|--|
| Intertidal Zone Activities | | |
| February 4 th | 1) ATCAT Agency participants to provide written comments on the draft Intertidal Zone Notification Plan. | Comments have been submitted by EHS. APCD and RWQCB will not submit comments. CDGF will submit comments by 2/4/13. |
| Ongoing | 2) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | In Progress |
| | 3) Chevron to prepare and distribute an addendum to the report of intertidal zone sampling/analytical data after the third winter sampling event. | Anticipate sampling in mid- February or March. |

| | | |
|--|--|--|
| March 31 st (depending on Chevron Internal Review) | 4) Chevron to prepare a consolidated dewatering and SVE workplan. | Agreed to consolidate the SVE Workplan and the dewatering strategies into one document. |
| Site Conceptual Model | | |
| March 1 st | 5) ATCAT Agency participants to provide comments via email on the revised track-changes version of the SCM. | The updated track-changes SCM will be available for review on the Avocet FTP site by 2/15/13. |
| HHRA Addendum | | |
| March 28 th | 6) EHS to provide comments on the draft HHRA Addendum by 3/28/13. | <i>(Note: after review of SLOTF and APTF priorities, EHS review date changed from 2/28/13 to 3/28/13.)</i> |
| Pre-Feasibility Study | | |
| March 15 th (EHS to provide comments by March 28 th) | 7) ATCAT Agency participants to provide written comments on the draft Pre-Feasibility Study. | All Agencies, except EHS, to provide comments by 3/15/13. <i>(Note: after review of SLOTF and APTF priorities, EHS review date changed from 3/15/13 to 3/28/13.)</i> |
| Other Pending Items/Activities | | |
| | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) | In progress. |
| | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization (Dan Niles) | In progress. |
| Q1-2013 | LNAPL brainstorm session follow up, first generate graphics and table (Rik Williams) | Will be incorporated into development of the Dewatering and SVE Workplan. |
| Mid February / Early March | Monitoring and Report Plan changes. (Rik Williams) | Deferred pending the conclusion of sampling activities in the Avila Cliff Intertidal Zone Area. |

| | | |
|-------------------------------|--|--------------|
| Mid February / Early March | Volumetric estimates of the loading rack/pump house, refinery, pipeline corridors and cliff area. (Rik Williams) | In progress. |
|-------------------------------|--|--------------|

ATCAT Conference Call – March 21, 2013 (1:00 PM – 3:00 PM)

1. Safety Moment
2. Review/Ratify 2/1/13 Conference Call Summary
3. Review/Discuss Pre-Feasibility Report Comments
4. Remaining Intertidal Zone Items/Issues
5. Site Conceptual Model
6. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: March 21, 2013

Time: 1:00 PM – 2:30 PM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|-------------------|----------------------|
| Chuck Anders | Strategic Initiatives | Andy Mutziger | APCD |
| Melissa Boggs | CDFW | Jaydeep Purandare | Avocet Environmental |
| Teri Copeland | Consultant to EHS | Debbie Rudd | RRM Design |
| Juliet Don | Chevron | Kim Tulledge | Chevron |
| Regina Donohoe | CDFW | Robert Van Hyning | Avocet Environmental |
| Jennifer Holder | ERM | David Whitney | APCD |
| Aaron LaBarre | EHS | Rik Williams | Chevron |
| Chuck Lambert | McDaniel Lambert | | |

Safety Moment

Rik Williams reminded everyone that we have not had much rain since the first of the year and the potential for fire hazards will be greater sooner than normal. Rik suggested that extra care be taken to prepare for the fire season and avoid fire hazards.

2/1/13 Conference Call Summary

The 2/1/13 Draft Conference Call Summary ver2 was ratified as written.

Site Conceptual Model

Robert Van Hyning explained that Avocet made the red-line revisions of the SCM available on their FTP site to the RWQCB and other agencies in late February. He noted that the RWQCB has a few more questions and he hopes to complete the final draft by 4/22. Andy Mutziger explained that Dan Niles stopped his review of the draft because he did not feel his previous comments were addressed. Andy has similar concerns and would like to participate in the meeting with the RWQCB.

Andy added that the APCD has also stopped their review of the Pre-Feasibility Report (PFR) until the SCM adequately addresses their concerns stated in their March 12, 2013 letter to the ATCAT because the conclusions of the PFR are dependant on the SCM. Robert will coordinate setting up the meeting with Dan and Andy within the next week. He will advise the full ATCAT on the outcome of the meeting and the implications on the Pre-Feasibility Report review.

There was a question of whether Chevron and Avocet received the email from Chuck Anders distributed to the full ATCAT on 3/12/13. Chevron also did not receive the hard copy of the letter that APCD mailed to Chevron on that same date. Rik Williams explained that Chevron will only get US mail sent to their P.O. Box address (P.O. BOX 1332) and mail sent to the street address (276 Tank Farm Road) will not be received.

HHRA Review Status

Rik Williams recalled that the timeline for EHS to complete their review of the HHRA Addendum was revised to 3/28/13 because of Chevron's priorities to complete document review on the SLO Tank Farm. Aaron LaBarre indicated that he has received Teri Copeland's review and anticipates submitting comments by on the HHRA Addendum by 3/28/13.

Aaron noted that he has not received a review of the PFR from Teri Copeland who is currently working on SLO Tank Farm; therefore, he is uncertain about meeting the 3/28/13 target for submitting comments of the PFR. He noted that revisions to the HHRA Addendum could impact the conclusions of the PFR and that he would anticipate revisions to the Addendum would be reflected in the PFR.

Volumetric Estimates

Rik Williams indicated that it is difficult to estimate volumes in the complex geologic formations at the site. He considers the recent report a starting point and is looking forward to discussions with Dan Niles to refine the estimates. Andy Mutziger indicated that APCD would like to be included in the discussions. Their concern is the volume of materials to be removed and the resulting number of truck trips. Andy suggested including the discussion of the volume of materials and truck traffic in the PFR.

Pre-Feasibility Report

Jennifer Holder noted that they were waiting on comments on the PFR. Aaron will provide an updated review target date early next week for EHS to submit comments on the PFR. Jennifer suggested also addressing the question of how the revisions to the CSM would impact getting comments back on the PFR and how the timing would work. Melissa Boggs indicated that CDFW is almost done with their review of the PFR, contingent on any significant changes with the SCM, and will submit their comments later today or tomorrow. Regina Donohoe suggested setting up an Eco Working Group conference call to discuss their comments on Appendix D. They have a number of other comments on the report and would not consider them major.

Rik Williams will follow-up and set up a meeting with Dan Niles and Andy Mutziger to work through the wording of the SCM and provide a timeline based on their discussions. Jennifer noted that the PFR would be updated to reflect revisions in the various documents in the next version. Andy Mutziger will provide a date when they can provide comments on the PFR after the meeting with Chevron to discuss the SCM.

Status of Intertidal Zone Issues and Activities

▪ Intertidal Zone Sampling and Reporting

Rik Williams reported on behalf of Louis Cappel. He noted that the most recent sampling event was on March 7 & 8 and that the sampling results were distributed last week. The last of the three scheduled winter sampling activities is scheduled for April 29 & 30. Louis will then prepare a monitoring report summarizing the winter sampling activities, which should be available sometime in May. Rik also intends to prepare a one-year monitoring report summarizing all the sampling results since last summer.

Rick noted that LNPL recovery is ongoing and they have recovered about 0.5 gallon so far. There has not been any indication of LNPL in the boreholes in that last few weeks. They were successful in recovering enough sheen sample to have it analyzed by Colorado State University. Chevron is currently reviewing the preliminary information and is in the process of setting up a conference with them to discuss how to proceed. Melissa Boggs asked if they were able to get enough sheen sample so the lab can attempt to fingerprint the sheen sample against a "source" sample and Rik clarified that they intended to discuss the

adequacy of the sample to conduct various analyses. Rik hopes they will get a better understanding from the university of what they can do in a week or two and he will report back. Melisa also asked what sample collection method was used that enabled them to get enough sheen sample for analysis and Rik will follow-up with Louis when he returns and report back.

▪ **Dewatering and SVE Activities**

Robert Van Hying reported that work was proceeding on the Dewatering/SVE Workplan and a draft should be available for review in 6 weeks. The workplan will provide a comprehensive cliff area approach. The workplan will likely include two new deep extraction wells, one new shallow extraction well plus other observation points. Chevron anticipates modifying the existing minor use permits to construct and expects installation mid-summer.

Aaron LaBarre noted that EHS was reviewing all the current data and calculating the cumulative risk, which has remained steady around 1×10^{-5} . He recalled that EHS had previously requested that Chevron also calculate cumulative risk in their reporting. Rik indicated that he would work to accommodate Aaron's request.

Draft Cliff Springs Monitoring Plan

Rik Williams indicated that Chevron would incorporate Tim Fuhs' comments into the next version of the document. Melissa Boggs will review the draft. All comments should be submitted to Chevron by 3/28/13. Aaron noted that EHS did review the draft and they do not have any comments. Aaron will send a note to Chevron indicating that he has no comments. Regina suggested checking with Dan Niles when he returns to make sure he can provide comments by 3/28/13. Rik will check with Dan when they discuss the SCM.

Notification Plan Status

Jennifer Holder will distribute the response to Agency comments in the next day or two. Aaron indicated that EHS has prioritized work on the Notification Plan as the 1st priority for Avila Tank Farm deliverables. Melissa agreed that the Notification Plan should be the 1st priority for review. It was agreed that the Agencies would provide comments by 4/12/13 (or provide an alternate date after they review the response to comments document). Jennifer suggested that anyone with questions work to resolve those questions via phone or email. Assuming all issues can be resolved, a final draft of the Notification Plan will be distributed for final review and ratification.

Chevron, EHS, CDFW, and APCD agreed to the following priority of documents for review purposes:

1. Notification Plan
2. SCM
3. HHRA Addendum
4. Pre-Feasibility Report

Status of EIS Consultant

Chuck Anders reported that County Planning was proceeding with hiring an EIS consultant. He noted that Ryan Hostetter provided the following update via email. County Planning will be sending out a request for proposals by the end of next week and will be hosting a bidder's meeting in mid-April. The County hopes to have received all proposals by the beginning of May. Chuck also related an invitation from Steve McMasters for interested Agency representatives to participate in the bidder's meeting to ensure that all of their concerns are addressed. Debbie Rudd indicated that Ryan had mentioned a target date for the bidder's meeting the morning of April 18th. It was her understanding

that there will be a meeting in the morning and a site tour in the afternoon. Melissa, Aaron Andy and David indicated that they would like to participate in the bidder's meeting.

Schedule and Action Items

The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 3/21/13)**

| Schedule | Action Items | Status/Comments |
|--|--|--|
| Intertidal Zone Activities | | |
| Distribute draft by 3/26/13 Comments due by 4/12/13 | 1) Jennifer will distribute the Response to Agency comments on the draft Notification Plan by 3/26/13. Agencies to provide comments back to Jennifer by 4/12/13. | |
| Ongoing | 2) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | In Progress |
| May/June | 3) Chevron to prepare and distribute sampling/analytical data after the third winter sampling event. The winter sampling data will be combined with previous data and distributed as an “annual report.” | The 3 rd winter sampling event is scheduled for April 29 & 30. Sampling data will be distributed as soon as available and reviewed. |
| Late April/Early May | 4) Chevron to prepare a consolidated dewatering and SVE workplan. | |
| Site Conceptual Model | | |
| Meeting the week of 3/25/13 | 5) Chevron will meet with Dan Niles and Andy Mutziger to resolve questions on the red-lined draft of the SCM. | Chevron will advise ATCAT about implications to schedule and when meeting date is set. |
| TBD after meeting to discuss red-lined draft of SCM | 6) ATCAT Agency participants to provide comments via email on the revised track-changes version of the SCM. | |
| HHRA Addendum | | |
| March 28 th | 7) EHS to provide comments on the draft HHRA Addendum by 3/28/13. | On track. |

| Pre-Feasibility Study | | |
|--|--|--|
| Notify ATCAT of the outcome/implications immediately after meeting | 8) Robert Van Hyning will inform the ATCAT of the outcome of the meeting to discuss the red-lined draft of the SCM and the implications on the PFR review. | |
| CDFW will provide comments by 3/25/13 Other Agencies – TBD depending on SCM meeting and SLO TF status | 9) ATCAT Agency participants to provide written comments on the draft Pre-Feasibility Study. | Convene Eco Working Group to review CDFW comments on Appendix D. |
| Other Pending Items/Activities | | |
| TBD | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) | In progress. |
| TBD | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization (Dan Niles) | In progress. |
| TBD | Chevron to meet with RWQCB and APCD to discuss draft Volumetric estimates of the loading rack/pump house, refinery, pipeline corridors and cliff area. | |

ATCAT Conference Call (tentative) – April 18, 2013 (1:30 PM – 3:00 PM)

1. Safety Moment
2. Review/Ratify 3/21/13 Conference Call Summary
3. Site Conceptual Model
4. Review/Discuss Pre-Feasibility Report Comments
5. HHRA Addendum
6. Volumetric Estimates
7. Remaining Intertidal Zone Items/Issues
8. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: August 6, 2013

Time: 9:30 AM – 10:40 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|-------------------|----------------------|
| Bill Almas | Chevron | Chuck Lambert | McDaniel Lambert |
| Chuck Anders | Strategic Initiatives | Philip Miller | Avocet Environmental |
| Melissa Boggs | CDFW | Andy Mutziger | APCD |
| Katie Butler | McDaniel Lambert | Dan Niles | RWQCB |
| Louis Cappel | Padre Associates | Jaydeep Purandare | Avocet Environmental |
| Juliet Don | Chevron | Debbie Rudd | RRM Design Group |
| Regina Donohoe | CDFW | Kim Tulledge | Chevron |
| Kurt Fehling | Consultant to EHS | Robert Van Hying | Avocet Environmental |
| Jennifer Holder | ERM | Rik Williams | Chevron |

Safety Moment

Rik Williams discussed a recent event at a soccer tournament that he was officiating where two girls collided and hit their heads. One of the girls appeared to have a serious concussion. Rik emphasized the importance of understanding how to deal with concussions and noted that the CDC has excellent guidelines available on concussion management. The guidelines include calling 911 immediately, keeping the patient still, stabilizing the head, making sure they don't swallow their tongue, keeping them warm and keeping them alert until EMTs arrive. He suggested that everyone review the CDC guidelines, especially with school starting soon.

6/18/13 ATCAT Meeting Summary

The 6/18/13 Draft ATCAT Meeting Summary ver2 was ratified, as written.

Status of Action Items from 6/18/13 ATCAT Meeting

Chuck Anders reviewed the status of action items from the 6/18/13 ATCAT meeting and noted that all of the critical items have been completed or would be completed soon.

ATCAT Participant List Update

Chuck Anders reviewed the ATCAT participant list dated August 1, 2013. The following revisions were noted and will be made:

- Update Avocet Environmental address - 1 Technology, Suite C515 Irvine, California 92618.
- Update email address for George Weber - George.Weber@erm.com.

HHRA Status

Chuck Lambert reported that the draft Human Health Risk Assessment (HHRA) was distributed to the full ATCAT for review on July 23rd and that comments were due by August 5th. To date, he has received comments from EHS. Andy Mutziger noted that APCD has reviewed the document and he is comfortable with the EHS comments. Chuck indicated that it would take about two weeks to distribute the draft final HHRA after all Agency comments were received. Rik noted that it is Aaron's intention to

complete a letter of determination within 30 days of receipt of the draft final HHRA, which should be around the middle of September. Chuck will work directly with Kurt Fehling to resolve any issues identified in the EHS comments. Chuck anticipates distributing the draft Final HHRA to the full ATCAT by mid-August.

Cliff Area/Intertidal Zone Status Update

- **SVE and Dewatering Pilot Test Status** – Rik Williams reported that pilot test equipment has been installed onsite. They have completed five shallow soil-vapor extraction wells, eight dual-phase monitoring wells and two extraction wells have been developed. They will be connecting the wells to process equipment this week and pre-startup safety reviews will begin next week. Louis commented that subsurface conditions observed when drilling the new wells are consistent with what was presented in the Avocet Pilot Test Work Plan.

Rik anticipates startup of the pilot test the week after the Labor Day holiday. It may be possible to start the test the week before; however, he and Robert prefer to wait until after Labor Day to start the test. The shallow vapor extraction test will be conducted first to confirm that the equipment is running as planned and the deeper dual phase test will be conducted later.

- **Intertidal Zone Monitoring Report** - Louis Cappel noted that the data validation for the Spring sampling event has taken longer than anticipated. He anticipates distributing the Winter/Spring data sampling report in August and the annual report in early September. He confirmed that they would be comparing the sampling results to the notification thresholds.

Pre-Feasibility Report Comments

Jennifer Holder noted that the Pre-Feasibility Report Response To Comments (RTC) was distributed to the ATCAT for review on July 9th. The status of the Agency comments is as follows:

- EHS – satisfied with the RTC
- APCD – satisfied with the RTC pending further discussion on the logistics of restricting the site's post remediation ground water use. Andy will discuss the issue in an agency call next week and provide a response to Jennifer by the end of next week, if possible.
- RWQCB – Dan verbally confirmed that he had no comments and will follow-up with an email to Jennifer by the end of the week.
- CDFW – Melissa and Regina indicated that they were satisfied with the RTC with the addition of the Black Abalone to the list of protected species in the intertidal zone.

Jennifer is hoping to distribute the Revised Pre-Feasibility Report by the end of September. She noted that the Agency comments on the RTC appear to be minimal. George Weber is working on the ecological risk assessment appendix comments and figures and will provide them to Melissa and Regina for review, which she hopes will be complete by the end of August. Jennifer does not anticipate that the EHS HHRA letter of determination will have a significant impact on the Pre-Feasibility Report and suggested that any changes resulting from the EHS letter of determination be addressed in the next iteration of the Pre-Feasibility Report.

Feasibility Study

Bill Almas announced that the draft Feasibility Study (FS) is nearing completion and they will soon begin the internal Chevron review process. He hopes that they will be able to discuss the draft FS at the next ATCAT meeting scheduled for September 17th. Robert noted that the timing of the internal review process is uncertain and suggested holding the September 17th ATCAT meeting date as a placeholder contingent upon completion of the Chevron internal review. If the internal review is not complete, we can either have a conference call instead of a face-to-face meeting and/or reschedule the ATCAT meeting.

Draft ATCAT Goals and Process Ground Rules

Chuck Anders briefly reviewed the suggested edits and comments included in version 3 of the draft Goals and Process Ground Rules document distributed on August 2nd. It was agreed that Chuck Anders and Debbie Rudd would prepare a revised draft to be discussed at the next ATCAT meeting that would include the following:

- Add “Updated” to the date in the title to indicate that the draft supersedes a previous version.
- Include a beefed-up mission statement that includes the types of agencies participating.
- Add project-specific goals

In their comments, APCD expressed concern over the original language regarding communication with the press and noted, “Each Agency needs to have the ability to respond to the press without securing “approval” from the ATCAT.” In their comments, APCD further stated, “We do not feel that the ATCAT should be placed in a position to address the media. Further, the ATCAT does not have a designated person chosen to speak to the media on behalf of the ATCAT.” After discussing this issue the ATCAT concluded that the ATCAT is not intended to be an organization that speaks to the press; however, in the event that an ATCAT participant attributes a statement to the ATCAT, it must be documented in a ratified meeting summary and in the event that a draft meeting summary has not yet been ratified, a conference call will be convened to ratify the draft meeting summary or agree on the public statement. Based on this clarification, Andy agreed to the original language in the draft document.

Status of CEQA Consultant

Melissa, Dan, Andy and Aaron indicated that they had met with County Planning to provide input on the selection requirements for a CEQA consultant. Debbie Rudd indicated that based on a recent conversation with Ryan Hostetter, consultant selection is scheduled for late August and they intend to move forward with an authorization hearing on September 10th. Chuck Anders and Debbie Rudd will contact Ryan to confirm the schedule. Rik Williams thanked the Agency representatives on behalf of Chevron for taking the time to meet with County Planning.

Schedule and Action Items

The next ATCAT meeting is scheduled for September 17th from 9:30 AM – 3:00 PM pending the completion of the draft FS. In the event that the Chevron internal review is not complete, the face-to-face meeting may be changed to a conference call and/or rescheduled.

The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 8/6/13)**

| Schedule | Action Items | Status/Comments |
|-----------------------------------|---|-----------------------------|
| Intertidal Zone Activities | | |
| Mid-September | 1) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | Undergoing internal review. |
| End of August | 2) Chevron will prepare and distribute sampling/analytical data from the Winter/Spring sampling events. | |

| | | |
|---|---|--|
| Week after Labor Day Holiday | 3) Start up SVE pilot test. | |
| Early September | 4) The winter/spring sampling data will be combined with previous data and distributed as an "annual report." | |
| ATCAT Goals and Process Ground Rules | | |
| Prior to September 17 ATCAT Meeting | 5) Chuck Anders and Debbie Rudd will prepare a revised draft for review at the next ATCAT meeting. | |
| HHRA Addendum | | |
| Mid-August | 6) Chuck Lambert will distribute the draft Final HHRA to the full ATCAT for review. | |
| Mid-September | 7) EHS will provide a Letter of Determination on the Draft Final HHRA. | Thirty days after receipt of document. |
| Pre-Feasibility Report | | |
| August 9 | 8) Dan Niles will document that the RWQCB has no comments on the draft Pre-Feasibility Report in an email to Jennifer Holder. | |
| August 16 | 9) Andy Mutziger will discuss the logistics of restricting the site's post remediation ground water use in an Agency call next week and provide a response to Jennifer Holder. | |
| End of September | 10) Jennifer Holder will distribute the revised Pre-Feasibility Report ver1.1 to the ATCAT for review. | |
| CEQA Review | | |
| September 10 | County Planning will select a CEQA consultant: <ul style="list-style-type: none"> ▪ Interviews and selection (end of August) ▪ Authorization hearing (September 10) | |

| Other Pending Items/Activities | | |
|---------------------------------------|--|--------------|
| TBD | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the LNAPL Recovery and Mobility Pilot Test (Dan Niles) | In progress. |
| TBD | Draft No Objection Letter from RWQCB to Chevron on the Report of Findings for the Supplemental Cliff Area Characterization (Dan Niles) | In progress. |

Upcoming ATCAT Meetings and Conference Calls

ATCAT Meeting in San Luis Obispo – September 17, 2013 (9:30 AM – 3:00 PM)

1. Safety Moment
2. Review and Ratify 8/6/13 Conference Call Summary
3. HHRA Addendum
4. Intertidal Zone Monitoring Report
5. SVE and Dewatering Pilot Study
6. Revised Pre-Feasibility Report ver1.1
7. Draft Feasibility Study
8. ATCAT Goals and Process Ground Rules
9. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Conference Call Summary

Date: September 17, 2013

Time: 9:30 AM – 10:20 AM

Participants:

| Name | Organization | Name | Organization |
|-----------------|-----------------------|-------------------|----------------------|
| Bill Almas | Chevron | Aaron LaBarre | EHS |
| Chuck Anders | Strategic Initiatives | Chuck Lambert | McDaniel Lambert |
| Melissa Boggs | CDFW | Philip Miller | Avocet Environmental |
| Louis Cappel | Padre Associates | Andy Mutziger | APCD |
| Juliet Don | Chevron | Dan Niles | RWQCB |
| Regina Donohoe | CDFW | Jaydeep Purandare | Avocet Environmental |
| Kurt Fehling | Consultant to EHS | Kim Tulledge | Chevron |
| Jennifer Holder | ERM | Robert Van Hying | Avocet Environmental |
| Ryan Hostetter | County Planning | Rik Williams | Chevron |

Safety Moment

Aaron LaBarre shared his experience at the recent Sheriff's Family Day, which highlighted local police and emergency services personnel and equipment. Fire and emergency response equipment was on display and Agency representatives were available to answer questions. He noted that there were over 1,000 people and that the kids loved all the equipment and demonstrations. Rik Williams followed-up by reminding everyone to prepare a home and office emergency response plan, which should include an evacuation element and identify a meeting place in case people get separated. He noted that wired telephones would continue to work without electricity.

8/6/13 ATCAT Meeting Summary

The 8/6/13 Draft ATCAT Meeting Summary ver1 was ratified, with clarifications provided by Rik Williams and updating CDFG to CDFW throughout the document.

HHRA Status

Chuck Lambert reported that the Human Health Risk Assessment (HHRA) was submitted to EHS on August 20, 2013. Copies were also distributed to the full ATCAT. Chuck thanked Aaron and Kurt for their help in preparation of the document. Aaron indicated his appreciation for Chuck and Becky's efforts and felt that the process was very efficient and well handled. He noted that the Letter of Determination was currently under peer review within EHS and that he planned to discuss the draft with Andy and Dan next week. He anticipates finalizing and distributing the Letter of Determination within two weeks.

Cliff Area/Intertidal Zone Status Update

- **Intertidal Zone Inspections** – Rik Williams noted that the intertidal area continues to be covered with sand. Mesilla Boggs asked whether they were currently checking for odors. Louis Cappel explained that they only do detailed site inspections, including checking for odors, during low tide events.

- **Intertidal Zone Monitoring Report** – Rik reported that the Fall/Winter Sampling Report is currently being reviewed by Chevron and should be available by late September. The Annual Sampling Report should be available by early-mid October. He noted that internal priorities within Chevron have caused the delay in completing the documents.
- **SVE and Dewatering Pilot Test Status** – Robert Van Hyning indicated that they started the pilot test at the shallow locations on September 5. He noted that the initial vapor concentrations were very high and have been decreasing. He anticipates that they will get good data for the long-term remedial design. The radius of influence is over 50 feet and the results are in line with what he expected to see. He expects that they will end the test this week and begin the dual-phase tests next week.

Andy Mutziger asked Robert what he expected to learn from the dual-phase tests. Robert explained that the purpose of the test was to get a better understanding of what was happening near the interface with ground water. They will perform both fluid evacuation and vapor removal at the same time. He noted that a high vacuum will cause the water level to rise in the well casing so they will simultaneously pump water to keep the water level in the well constant in order to better understand the fracture structure near the water table. He anticipates initially high vapor concentrations due the presence of NAPL on the water table and anticipates rapid reduction due to smaller core space in the fractures near the water table. The test will last 20 days and the results will be used to design longer-term remedial actions.

Pre-Feasibility Report

Jennifer Holder indicated that they have been working with Regina and Melissa on the Eco Risk Appendix and anticipate completion of the appendix within a couple of weeks. Regina noted that she has reviewed the latest draft and it appears that Jennifer has addressed her comments. ERM will do a final edit of the document after the HHRA Letter of Determination is released and submit the document to Chevron for internal review. Jennifer anticipates distribution of the Pre-Feasibility Report to the ATCAT approximately six weeks after the Letter of Determination is received.

Feasibility Study

Robert Van Hyning indicated that Avocet has completed a technical memo and submitted it to Chevron for review. They also met with the RWQCB to discuss the approach of preparing a screening table to evaluate remedial alternatives in addition to other issues. He noted that the technical memo took longer than anticipated. Robert would like to review key issues at the next ATCAT meeting, including the overall approach, the alternative screening process and how the operable units were assembled. Robert noted that they have assembled the alternatives and would like to get an agreement on the evaluation process prior to completing an analysis of the alternatives.

Draft ATCAT Goals and Process Ground Rules

Chuck Anders explained that he, Debbie Rudd and Kim Tulledge had revised the draft Goals and Process Ground Rules document based on input received at the June 18 ATCAT meeting and August 6 conference call. The draft was distributed to the ATCAT on September 13. Andy Mutziger indicated that the draft looked good and addressed his comments. Any additional comments on the revised draft should be submitted to Chuck Anders by the end of the week. The final draft will be reviewed and discussed at the next ATCAT meeting.

Status of CEQA Consultant

Ryan Hostetter reported that County Planning had chosen a CEQA consultant and hopes to have them on board by late October. It was suggested that they participate in the upcoming ATCAT meeting.

Schedule and Action Items

The next ATCAT meeting is scheduled for October 23rd from 9:30 AM – 3:00 PM in San Luis Obispo. The focus of the meeting will be a discussion of the FS process and issues. Robert Van Hyning will evaluate what makes sense to distributed prior to the meeting.

The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 9/17/13)**

| Schedule | Action Items | Status/Comments |
|---|---|--|
| Intertidal Zone Activities | | |
| Mid-September | 1) Melissa Boggs/Regina Donohoe – Distribute Mussel Report. | Undergoing internal review. |
| Late September | 2) Chevron will prepare and distribute sampling/analytical data from the Winter/Spring sampling events. | |
| Early-Mid October | 3) The winter/spring sampling data will be combined with previous data and distributed as an “annual report.” | |
| Week of September 23 | 4) Begin dual-phase portion of pilot test. | |
| ATCAT Goals and Process Ground Rules | | |
| September 20 | 5) ATCAT participants will provide additional comments, if any. | |
| HHRA Addendum | | |
| End of September | 6) EHS will provide a Letter of Determination on the Draft Final HHRA. | Thirty days after receipt of document. |
| Pre-Feasibility Report | | |
| Early November | 7) Jennifer Holder will distribute the revised Pre-Feasibility Report ver1.1 to the ATCAT for review. | |

| CEQA Review | | |
|--------------|--|---|
| Late October | 8) County Planning will contract with CEQA consultant. | CEAQ consultant should attend October 23 ATCAT meeting. |

Upcoming ATCAT Meetings and Conference Calls

ATCAT Meeting in San Luis Obispo – October 23, 2013 (9:30 AM – 3:00 PM)

1. Safety Moment
2. Review and Ratify 9/17/13 Conference Call Summary
3. HHRA Letter of Determination
4. Intertidal Zone Monitoring Reports
5. SVE and Dewatering Pilot Study
6. Status of Pre-Feasibility Report
7. Feasibility Study Approach and Issues
8. ATCAT Goals and Process Ground Rules
9. Action Items/Path Forward

Avila Tank Farm Collaborative Assessment Team

Draft Meeting Summary

Date: October 23, 2013

Time: 9:30 AM – 1:55 PM

Location: RRM Design Group, 3765 S. Higuera, Suite 102, San Luis Obispo, CA

Participants:

| Name | Organization | Name | Organization |
|----------------------|-----------------------|-------------------|----------------------|
| Sandra Alarcón-Lopez | Aspen Environmental | Aaron LaBarre | EHS |
| Bill Almas* | Chevron | Chuck Lambert | Intrinsik |
| Chuck Anders | Strategic Initiatives | Steve McMasters | County Planning |
| Melissa Boggs | CDFW | Philip Miller | Avocet Environmental |
| Louis Cappel | Padre Associates | Andy Mutziger | APCD |
| Juliet Don | Chevron | Dan Niles | RWQCB |
| Regina Donohoe | CDFW | Jaydeep Purandare | Avocet Environmental |
| Kurt Fehling | Consultant to EHS | Debbie Rudd | RRM Design Group |
| Jennifer Holder | ERM | Kim Tulledge | Chevron |
| Ryan Hostetter | County Planning | Robert Van Hying* | Avocet Environmental |
| Susanne Huerta | Aspen Environmental | Rik Williams | Chevron |

*via phone

Safety Moment

Rik reminded everyone that it is becoming darker earlier in the day and to watch out for trick-or-treaters on Halloween eve. He also noted that the upcoming change in daylight savings time is a good time to change batteries in all of your detection devices. Others noted the importance of keeping guns in a gun safe and chemicals locked up and away from children.

9/17/13 ATCAT Conference Call Summary

The 9/17/13 Draft ATCAT Conference Call Summary ver1 was ratified, as written.

Pre-Feasibility Report

Jennifer recommended changing the release date for the revised Pre-Feasibility Study to the second week in January to allow for internal review, updates of Appendices and incorporation of the recently released Letter of Determination. She does not anticipate any significant issues. She noted that hard copies would be provided, if requested.

Cliff Area/Intertidal Zone Status Update

- **Intertidal Zone Monitoring Reports** – Louis reported that the Fall/Winter Sampling Report is currently being reviewed by Chevron. Both the Fall/Winter Sampling Report and the Annual Report will be available by the end of the year.
- **Intertidal Zone Inspections** – There are 15 inspection/monitoring events scheduled between early November and the end-of-the-year. The inspections will take place in the afternoon during low tide. Louis will distribute a schedule of the events to the full ATCAT by the end of the week.

- **CDFW Mussel Report** – Melissa would like comments on the draft document that she distributed on October 15th. Comments, if any, should be provided to Melissa by December 2nd. The document is for information purposes and does not require ATCAT ratification.
- **SVE and Dewatering Pilot Test Status** – Rik indicated that they completed the shallow portion of the SVE pilot test in September and are currently reviewing the data. They will calculate mass removal rates and the radius of influence in adjacent wells. He noted that methane was observed during start-up.

The dual phase portion of the pilot test began on October 2nd and should be completed by October 28th. The dual phase tests are being conducted in deeper wells screened between 70 and 100 feet in bedrock. The results are influenced by the well locations and whether the well is in consolidated rock or fractured rock. He noted that very little influence was observed in surrounding observation wells when testing the extraction wells. Extraction tests were conducted on the observation wells with the same result. Rik noted that they hope to complete the third and last phase of the pilot test by the end of November and provide a data report by the first quarter of 2014.

Steve expressed concern that they were getting close to the end of the permit window and that it was important to address any extensions earlier rather than later. Rik will provide a memo to County Planning by November 4th that addresses pilot test timing and permit requirements.

- **Public Notification and Signage** – Aaron will implement the signage plan when the beach is scoured. He will coordinate with Chevron and designated Agencies and also notify the full ATCAT.

Project Application and CEQA Process

Ryan Hostetter reported that County Planning has taken the general plan amendment to the Board of Supervisors for approval. They would like to update the timeline for the CEQA process and prepare a formal project description. They also have to prepare a notice of preparation. Steve would like to understand at what point they would have enough information for a project description, which would align the CEQA process with the FS. Kim noted that the preferred alternative for the FS would likely be the basis for the project description. Sandra indicated that they need a timeline to know when the key information would be available. It was agreed that Chevron would begin working with County Planning and the CEQA consultants on a more formal basis to refine the timeline and prepare a project description.

Draft ATCAT Goals and Process Ground Rules

Chuck Anders noted that the only comment received on the draft Goals and Process Ground Rules document was from Melissa. She offered suggested revisions to the draft document, including changing the term “regulations” to “authorities” in the following sentence in the mission statement.

Each participating agency maintains its individual authority and responsibility to administer their respective ~~regulations~~ authorities.

Melissa explained that an agency’s authorities included their policies in addition to regulations. Melissa referenced the CDFW policy over wetlands as an example and will distribute an email from the agency biologist regarding wetlands at the San Luis Obispo Tank Farm site to illustrate her point. Rik expressed concern over the suggested change. Chevron will work with Melissa to clarify the implications of the language and develop acceptable language by the end of the month at which time Chuck Anders will distribute the document for review and approval.

Feasibility Study

Robert noted that they have been working with Dan at the RWCQB on the feasibility study issues. The project being evaluated is the proposed development project and they need to address alternatives to the development project as part of the CEQA process. They will begin detailed evaluation at the end of this week and hope to have an internal document for review by the end of November. It is important to know if anyone has any issues with the technical memorandum that was recently distributed.

Philip used a PowerPoint presentation to present information regarding the FS. He noted that they are following a modified CERCLA RI/FS process, which is well established and defined in federal regulations.

There are three main drivers for the Avila tank farm FS decisions:

- Human receptors,
- Ecological receptors, and
- ARARS and TBC's.

The FS will address Chevron's baseline remediation concept and likely future land-use. Five Operational Units (OUs) were developed for remediation purposes based on the original development bubbles. In addition, multiple Areas of Concern (AOCs) were defined.

The following general response actions will be assessed:

- No action
- Institutional controls,
- Engineering controls,
- Natural attenuation,
- Containment,
- In-situ treatment, and
- Removal, including off-site and on-site treatment.

Philip noted that a broad range of candidate technologies were screened based on effectiveness, implementability and cost consistent with the CERCLA guidelines and either retained for further consideration or discarded. He reviewed the draft Screening of Remedial Technologies tables in the draft technical memorandum. Sandra questioned how they identified the proposed technologies. Philip indicated that they relied on experience, EPA documents and RWQCB suggestions. He noted that the alternatives would cast a wide net.

The following four remedial alternatives that apply to the entire site were developed:

- Alternative 1 – monitored natural attenuation,
- Alternative 2 – Chevron's baseline remediation,
- Alternative 3 – baseline remediation and development grading, and
- Alternative 4 – enhanced baseline remediation and development grading.

Philip noted that baseline remediation takes care of most of the site issues and that each successive alternative addresses issues not included in the previous alternative. Each of these alternatives will be screened against the following nine evaluation criteria identified in EPA guidance:

- Threshold Criteria
 - Overall protection of human health and the environment
 - Compliance with ARARS
- Balancing Criteria
 - Long-term effectiveness and permanence
 - Reduction of toxicity, mobility or volume through treatment
 - Short term effectiveness
 - Implementability
 - Cost
- Modifying Criteria

- State support / agency acceptance
- Community acceptance

Philip briefly reviewed each of the four alternatives.

- Alternative 1 (Monitored Natural Attenuation) – Chevron would retain ownership of the site as non-public open space. Zoning would remain industrial. This is the equivalent of the “Do Nothing” alternative required in the CEQA process.
- Alternative 2 (Chevron’s Baseline Remediation) – This would include removal of the top 4 ft. of soil with greater than 1,000 mg/kg TPH. Philip explained that they conducted numerous analyses to evaluate the impact of changing the TPH concentration and cover depth on the amount of soil that would need to be removed. Changing these factors did not make a significant difference so they decided to stay with a cover depth of 4 ft. and the removal threshold of 1,000 mg/kg TPH. Based on these criteria, approximately 2,000 yds³ of TPH impacted soil and 88 yds³ of soil in the loading dock area would need to be excavated. This alternative would also include some additional restoration grading to soften features and depressions and improve natural drainage
- Alternative 3 (Baseline Remediation and Development Grading) – This alternative would include Alternative 2 activities plus significant additional grading to prepare the site for the proposed development plan (cut = 281 yds³, fill = 194,000 yds³, net cut = 87,000 yds³).
- Alternative 4 (Enhanced Baseline Remediation and Development Grading) This would include Alternative 3 activities plus additional mitigation measures, such as, LNPL and dissolve phase removal and soil gas VOC methane treatment.

Philip and Robert noted that the grading volumes were based on their best estimates at this time and they were not sure what the final quantities would be. They do not expect that it will change significantly since the cut and fill must maintain a reasonable balance.

Debbie questioned how they would deal with possible archeological sites. Steve indicated that Chevron should propose what is to be done and note the potential impacts. There is a process to evaluate archeological resource impacts and the key is to note the potential impacts to the archeological site so the significance of the impacts can be evaluated. Sandra noted that it is important to acknowledge that the archeological resource is present.

Ryan raised a concern about the timing of activities and what is required for the CEQA documents. She wants to make sure that no action takes place that requires CEQA involvement. It was agreed that the project description is the next key element for the CEQA process and Chevron and County Planning will work together to develop an acceptable project description.

HHRA Letter of Determination

Aaron thanked Rik, Chuck Lambert and Kurt for their work on the final HHRA noting that it was a very efficient process. Chuck Lambert observed that the Letter of Determination was very clear and straightforward. He is looking forward to further discussions regarding Andy’s long-term chemical risks concerns.

Schedule and Action Items

The next ATCAT conference call is scheduled for January 22nd from 9:00 AM – 11:00 AM. The following table presents the updated status of activities:

**Status of ATCAT Action Items
(as of 10/23/13)**

| Schedule | Action Items | Status/Comments |
|---|--|-----------------|
| Intertidal Zone Activities | | |
| December 2 nd | 1) ATCAT will provide comments to CDFW on the draft Mussel Report, if any. | |
| October 25 th | 2) Chevron will distribute an intertidal zone sampling schedule for the remainder of 2013 to the ATCAT. | |
| December 31 st | 3) Chevron will prepare and distribute the sampling/analytical data from the Winter/Spring sampling events. | |
| December 31 st | 4) The winter/spring sampling data will be combined with previous data and distributed as an “annual report.” | |
| November 4 th | 5) Chevron will provide a memo to County Planning that addresses SVE/Dewatering Pilot Test timing and permit requirements. | |
| 1 st Quarter 2014 | 6) Chevron will provide data report on the SVE/Dewatering Pilot Test. | |
| ATCAT Goals and Process Ground Rules | | |
| October 25 | 7) CDFW will distribute an email on wetland policy at the SLO Tank Farm. | |
| October 31 st | 8) Chevron and CDFW will review and agree on acceptable language regarding Agency regulations/authorities. | |
| Pre-Feasibility Report | | |

| | | |
|---------------------------------|---|----------------------------|
| 2 nd week of January | 9) Jennifer Holder will distribute the revised Pre-Feasibility Report ver1.1 to the ATCAT for review. | |
| CEQA Review | | |
| | 10) Chevron will meet with County Planning to clarify the Project Description. | Coordinate with FS timing. |
| Misc | | |
| | 11) Chevron will coordinate with County Planning regarding CCC permits. | Ongoing |

Upcoming ATCAT Meetings and Conference Calls

ATCAT Conference Call – January 22, 2014 (9:00 AM – 11:00 AM)

1. Safety Moment
2. Review and Ratify 10/23/13 Meeting Summary
3. Intertidal Zone Monitoring Reports
4. SVE and Dewatering Pilot Study Results
5. Pre-Feasibility Report
6. Feasibility Study
7. Action Items/Path Forward